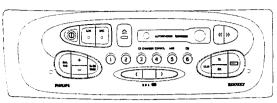
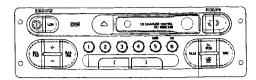
Casette Car Radio 22DC449/62E/L

Service Service Service

22DC459/62E/F/L/S/Z





/F/L/Z versions

/E/S versions

For repair information of the cassette deck, see S. Manual of Auto Cassette Deck CDS101Y 4822 725 24651 for DC459 CDS36 4822 725 25453 for DC449





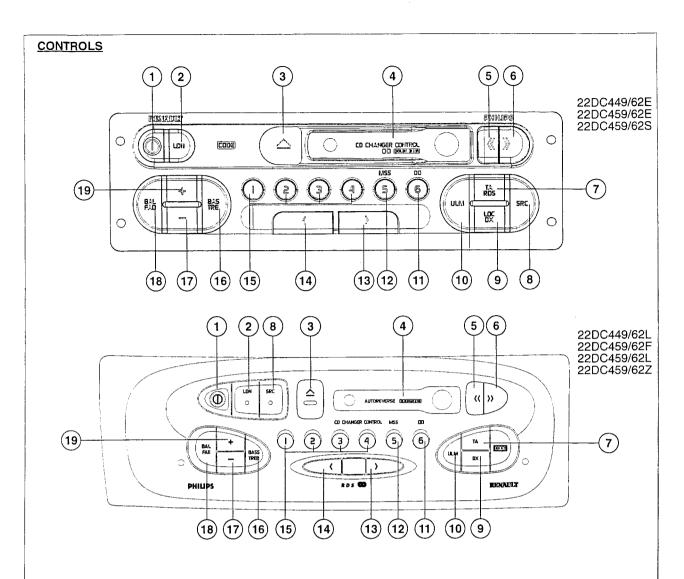
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482 2725 25862



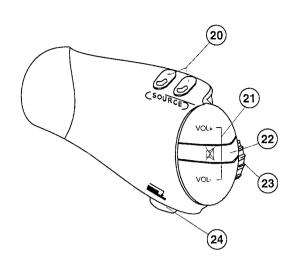




| POS | 22DC449/62E/62L | 22DC459/62S/62F | 22DC459/62E/62L/62Z | | | | | | |
|-----|-------------------------------|--------------------------------------|----------------------------------|--|--|--|--|--|--|
| 1 | | On / Off | | | | | | | |
| 2 | Loudness | | | | | | | | |
| 3 | Eject button | | | | | | | | |
| 4 | Cassette opening + flap | | | | | | | | |
| 5 | Fast rewind button | | | | | | | | |
| 6 | | Fast forward button | | | | | | | |
| 7 | | Traffic announcement / RDS | | | | | | | |
| 8 | Source | | | | | | | | |
| 9 | Select local or distance mode | | | | | | | | |
| 10 | | Band selection | | | | | | | |
| 11 | Preset 6 | Preset 6 / Dolby | Preset 6 / Dolby / Disk 6 / Scan | | | | | | |
| 12 | Preset 5 | Preset 5 / MSS | Preset 5 / MSS / Disk 5/ Scan | | | | | | |
| 13 | Searc | th UP | Search UP / Next track | | | | | | |
| 14 | Search | DOWN | Search DOWN / Previous track | | | | | | |
| 15 | Preset | Preset 1,2,3,4 / Disk 1,2,3,4 / Scan | | | | | | | |
| 16 | Bass / Treble | | | | | | | | |
| 17 | Vol , Bass, Treble, Balance - | Vol , Bass, Treb | ile, Balance, Fader - | | | | | | |
| 18 | Balance | Balan | ce / Fader | | | | | | |
| 19 | Vol , Bass, Treble, Balance + | Vol, Bass, Treb | le, Balance, Fader + | | | | | | |

22DC449/62. 22DC459/62.

REMOTE CONTROL



| 20 | Change waveband/source | | | | | | |
|----|---|---|--|--|--|--|--|
| 21 | Vol , Bass, Treble, Balance, Fader + and - when corresponding function activated | | | | | | |
| 22 | In code entry mode: SP : Validation digit Sec Code LP : Validation Sec Code | All others modes: Mute / Demute | | | | | |
| 23 | In code entry mode: Selection digits Sec Code | Changing preset / Track selection | | | | | |
| 24 | In code entry mode: SP : Validation digit Sec Code LP : Validation Sec Code | In radio mode: SP : search UP LP : Starts Autostore | | | | | |

SP: Short press

LP: Long press (>2s)

TECHNICAL DATA

| GEN | ERAL |
|-----|------|
|-----|------|

Power supply :14.4V DC
Dimensions :180x150x51 mm

Security code : Yes
Remote control : Yes
Remote display : Yes

RADIO

LW : 153-279 KHz
MW : 531-1602 KHz
FM : 87.5-108 MHz
IF-AM (1/2) : 10.7 MHz/450 KHz
IF-FM (1/2) : 72.2 MHz/10.7 MHz

Sensivity 26dB S/N : $<40 \mu V (LW)$

: <40 μV (MW) : 3.5 μV (FM)

Limitation α -3dB : $3\mu V < L < 14\mu V$

CASSETTE

Cassette mechanism : CDS101-Y (DC459)

: CDS36 (DC449)

Number of tracks : 2x2Tape speed : 4.76 cm/sec
Wow and flutter : ≤ 0.35%Crosstalk : ≥ 30 dB

AMPLIFIER

Output power : $4x15 \text{ W} / 4 \Omega \text{ (THD} = 10\%) DC459$

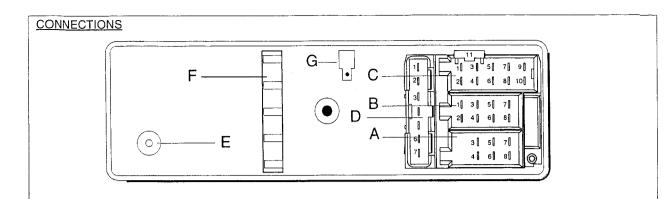
: $2x5W / 4\Omega$ (THD = 10%) DC449

Fader control : ≥30 dB (DC459 only)
Balance control : ≥12 dB (DC449 only)

: ≥30 dB (DC459 only)

Source separation : ≥60 dB

Input sensivity (CD in) : 150 mV \pm 2 dB

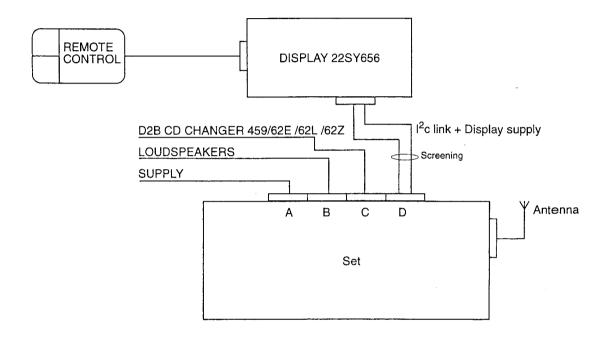


| POS | FUNCTION | 449/62E - 449/62L | 459/62F - 459/62S | 459/62E - 459/62L - 459/62Z |
|---------------|--------------------|-------------------|-------------------|-----------------------------|
| A1 | | | | |
| A2 | | | | |
| II . | Mute radio (0V) | X | X | X |
| A4 | Plus permanent | X | X | X |
| A5 | + Antenna | X | X | X |
| A6 | Pilot light | X | X | X |
| A7 | Plus accessories | X | X | X |
| A8 | GND | X | X | X |
| | | | | |
| B1 | Rear right + | | X | X |
| B2 | Rear right - | | X | X |
| ВЗ | Front right + | X | X | X |
| B4 | Front right - | X | X | X |
| B5 | Front left + | X | X | X |
| B6 | Front left - | Х | X | X |
| B7 | Rear left + | | X | X |
| B8 | Rear left - | | X | X |
| | | | | |
| C1 | Screening D2B | | | X |
| C2 | Bus D2B + | | | X |
| СЗ | Bus D2B - | | | X |
| C4 | GND supply | | | X |
| C5 | CD supply (A4) | | | X |
| C6 | | | | |
| C7 | Info on / off (A5) | | | X |
| | input right | | | X |
| | Input left | | | X |
| | Input ref | | | X |
| C11 | Screening CD | | | X |
| L | | | | |
| D1 | Data I2C | X | X | X |
| D2 | Clock I2C | X | X | X |
| D3 | Mrq I2C | X | X | X |
| D4 | | | | |
| D5 | | | | |
| D6 | + antenna | X | X | X |
| U/ | GND | X | X | |
| E | AEDIAL DI LIC | X | X | X |
| - | AERIAL PLUG | | ^ | - |
| F | Eastoning ashle | X | X | X |
| - | Fastening cable | | ^ | |
| G | GND plug | X | X | X |
| L | GIAD bind | ^ | | ^ |

22 DC449/62. 22 DC459/62. These sets are parts of a system, composed of the following parts:

- 1)- The set 22DC449/62- or 22DC459/62-
- 2)- A remote control + cable.
- 3)- A remote display 22SY656/62 or 62X.(A1+ display)
- 4)- A cable link between the set (connector D) and the display.

-IN CASE YOU NEED PARTS OF THIS SYSTEM, PLEASE CONTACT LOCALLY RENAULT TO GET INFO ABOUT THESE PARTS.



This set is protected by a security code. THE CODE CAN ONLY BE ENTERED VIA THE REMOTE CONTROL.

Entering the code:

- -) Press the On/Off key to switch on the set. 0000 will appear on the display.
- -) To select the four digits of the code:
 - Adjust the flashing digit with the thumbwheel on the remote control.
 - Press the [22] key or 24] key on the remote control to change the digit.
- -) Press the [22] key or [24] key for at least 2 seconds to validate the code. When the code is activated a bleep will be heard.

Example: you want to enter the code 7637

| | Turn the thum- bwheel Press [22] or [24] | Press [22] or [24] for at least 2 seconds |
|------|---|---|---|---|--|
| 0000 | 7000 | 7600 | 7630 | 7637 | Last heard fre- quency |

2 - Keyboard test

Starting the test: press P3 and ON.

"T" is displayed to request keyboard test. For each key pressed, the number of the pressed key appears, according to the table shown below. When all 17 keys have been pressed, "TEST OK" message is displayed.

This test can be aborted at any time by switching the set OFF.

| number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
|--------|-----|------------|---|---|------------|------|------|------|------|------|------|-----|----|----|-----|----|----|
| key | LDN | BAL FAD | + | - | BAS TRE | Pr 1 | Pr 2 | Pr 3 | Pr 4 | Pr 5 | Pr 6 | ULM | TA | DX | SRC | < | > |

If all is right, the display shows "KEYS OK"

3 - Check sum and Running times (Multiples of ten minutes)

At the end of the keyboard test, press P3 to start this test. The display will show in order, during 5s each:

1) the checksum calculated from ROM content: CSM A1B2 (exemple)

TU 2) the running time in tuner mode: TA 3) the running time in cassette mode: 4) the running time in Cd changer mode CDC 5) the running time in Traffic Announcement TR 6) the running time in Telephone Call SP

7) the total running time TOT 8) the running time in nominal mode I²C NOM

These indications are displayed in a loop. To end the test, switch Off the set.



WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life

drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

ESD equipment available:

| Anti-static table mat large 1200X650X1.25mm | 4822 466 10953 |
|---|----------------|
| small 600X650X1.25mm | 4822 466 10958 |
| Connection box (1Mohm) | 4822 395 10223 |
| Extendible cable (to connect wrist band | 4822 320 11307 |
| to connection box) | |
| Connecting cable (to connect table mat | 4822 320 11305 |
| to connection box) | |
| Earth cable (to connect any product to | 4822 320 11308 |
| mat or box) | |
| Complete kit ESD3 (combining all above | 4822 310 10671 |
| products) | |
| wristband tester | 4822 344 13999 |

CHECKS AND ALIGNMENTS

No alignment is needed for radio part. IC96 tuner is pre-aligned.

For all measurement, please refer to "General Check & Alignment procedures for Car Systems' 4822 725 25456, unless otherwise stated.

Checks:

- Supply voltages (set Off)

| SET OFF | Voltage | Current + Acc ON | V reset Pin 4 μP | Vdd Pin 40 μP | V hold Pin 8 μP | Current + Acc OFF |
|------------|---------|---------------------|---------------------|----------------------|--------------------|----------------------|
| Acc supply | +14.4V | < 3mA | min Vdd x 0.7 | min 4.5V max 5.5V | max Vdd x 0.3 | < 1.5mA |

- Supply voltages (set On)

| V reset | V | V hold | V 5V | V 8.5V | V EEprom |
|---------------|----------------------|---------------|----------------------|----------------------|----------------------|
| pin 4 μP | pin 40 μP | pin 8 μP | E 7417 | E 7418 | pin 8 |
| max Vdd x 0.7 | min 4.5V max 5.5V | min Vdd x 0.7 | min 4.7V max 5.4V | min 8.0V max 8.9V | min 4.5V max 5.5V |

- Reference oscillator frequencies

| device | μΡ 7500 | SAA6579 7260 | MSM6307 7600 (CDC only) |
|-----------|------------|-----------------|----------------------------|
| pin | 3 | 13 | 25 |
| frequency | 8 MHz 0.5% | 4.332 MHz 20ppm | 6 MHz 0.5% |

Deck part

Use test cassette SBC420 4822 397 30071 unless otherwise stated.

| Tape speed and flutter: Use | Supply voltage | Tape speed | Flutter (wtd) |
|-----------------------------|----------------|------------------|---------------|
| 3.15KHz test tone | 10.8 - 15.6 V | 4.76cm/s +3% -1% | < 0.35% |

| , | | |
|---|--|----------------------------------|
| | Crosstalk: use 1KHz 0dB crosstalk signal | < -30dB at speakers output R & L |

FM part

- Demodulated FM levels

| Input | Output of IC96 (pin 15 & 16) |
|--------|--------------------------------|
| 98 MHz | 300 mV ± 50 mV |

- Limiting point α-3dB

| Range | Input | min | nominal | max |
|-----------------|-------|-----|-------------|------|
| 87.5 to 108 MHz | 1Khz | 4μV | 7μ V | 12μV |

- Check of search levels

| Search levels | Input | Dx: 7μV < X < 23μV |
|---------------|--------|---------------------------|
| ocarer revers | 98 MHz | Local : 120μV < X < 360μV |

- Pause detector

| f = 94MHz | $\Delta f = 0.6KHz$ | Pin 6 of 7230 < 0.8V |
|-----------|-----------------------------|----------------------|
| fm = 1KHz | $\Delta f = 3.5 \text{KHz}$ | Pin 6 of 7230 > 2.0V |

AM part

- Usable sensivity 26dB S/N

| Sensivity at 26dB | 207 KHz | m = 30% | 1KHz | < 38μV | typ 28 |
|-------------------|----------|-------------|--------|--------|--------|
| S/N | 1053 KHz | 111 = 00 /6 | 11(112 | < 30μV | typ 22 |

- Check of search levels

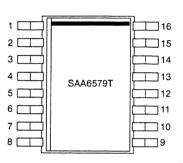
Conditions: start with set in FM DX mode, change to AM = 1053KHz

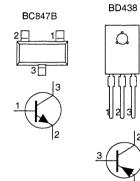
| Search levels | Input | low : 35μV < X < 140μV |
|---------------|---------|------------------------|
| Coarcirieveis | 1053KHz | high : 7μV < X < 28μV |

INTEGRATED CIRCUITS

SAA6579T Radio Data System demodulator

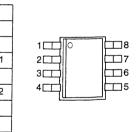
| SYMBOL | PIN | DESCRIPTION |
|------------------|-----|--|
| QUAL | 1 | quality indication output |
| RDDA | 2 | RDS data output |
| V _{ref} | 3 | reference voltage output (0.5 V _{DDA}) |
| MPX | 4 | multiplex input signal |
| V_{DDA} | 5 | +5V supply voltage for analog part |
| V _{SSA} | 6 | ground for analog part (0V) |
| CIN | 7 | subcarrier input to comparator |
| SCOUT | 8 | subcarrier output for reconstruction filter |
| TCTR | 9 | test control |
| TEN | 10 | test enable |
| V _{SSD} | 11 | ground for digital part (0V) |
| V _{DDD} | 12 | +5V supply voltage for digital part |
| OSCI | 13 | oscillator input |
| osco | 14 | oscillator output |
| T57 | 15 | 57kHz clock signal output |
| RDCL | 16 | RDS clock output |





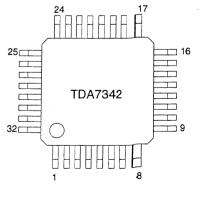
MC4558 Dual op amp

| PIN | DESCRIPTION |
|-----|-----------------------|
| 1 | Output 1 |
| 2 | Inverting input 1 |
| 3 | Non inverting input 1 |
| 4 | Vcc - |
| 5 | Non inverting input 2 |
| 6 | Inverting input 2 |
| 7 | Output 2 |
| 8 | Vcc + |

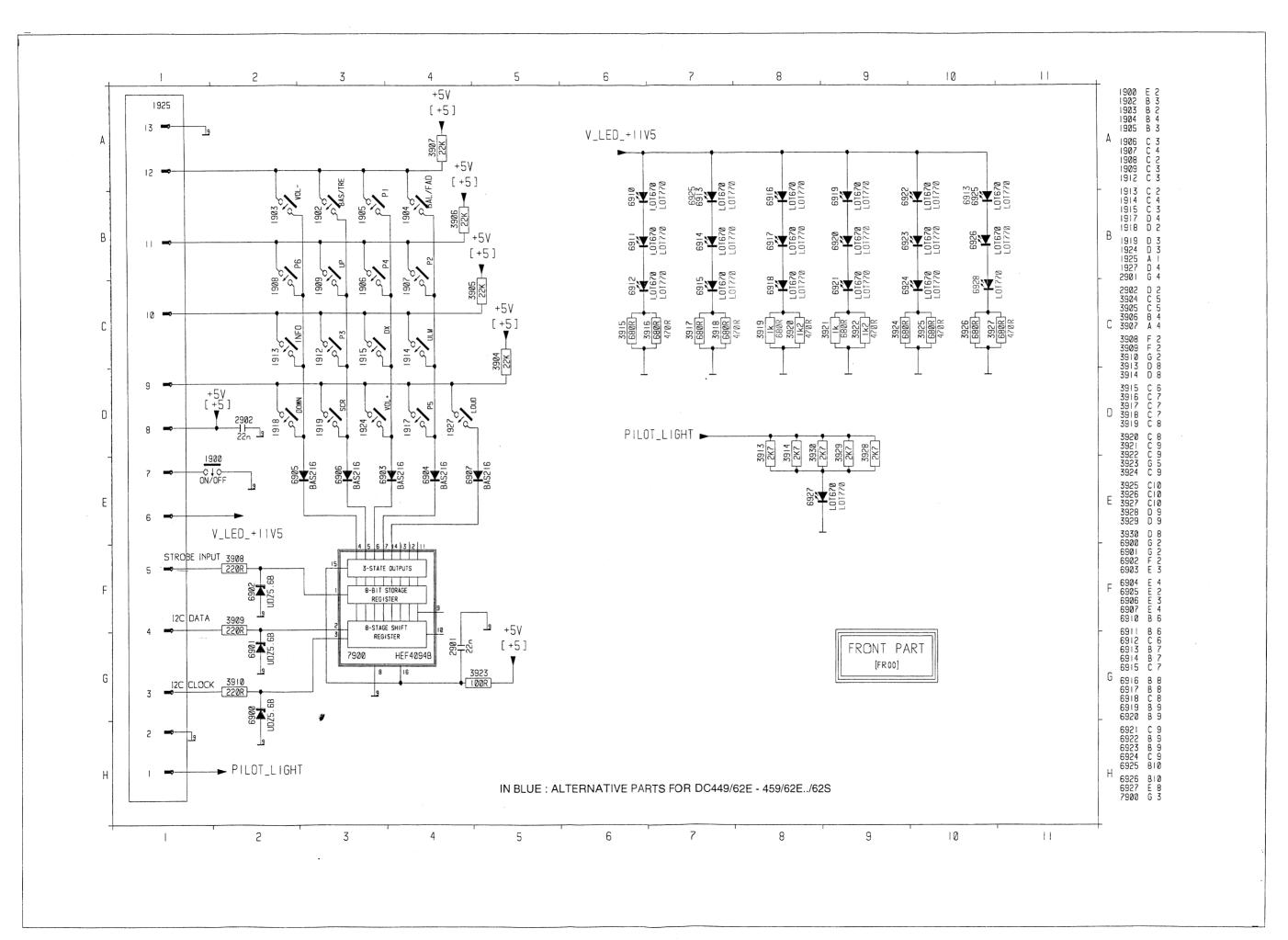


TDA7342 Digitally controlled audio processor

| SYMBOL | PIN | DESCRIPTION | SYMBOL | PIN | DESCRIPTION |
|--------|-----|------------------------------------|---------|-----|-----------------------------|
| TR R | 1 | Treble control capacitor right | BIN L | 17 | Bass control input left |
| IN R | 2 | Input right | BOUTL | 18 | Bass control output left |
| OUT R | 3 | Output right | BIN R | 19 | Bass control input right |
| LOUD R | 4 | Input loudness, right control part | BOUT R | 20 | Bass control output right |
| IN R3 | 5 | Input 3 right source (CD) | SM | 21 | Soft mute control |
| IN R2 | 6 | Input 2 right source | OUT RR. | 22 | Output rear right |
| IN R1 | 7 | Input 1 right source | OUT LR | 23 | Output left right |
| MONO | 8 | Input mono source | OUT RF | 24 | Output right front |
| LOUD L | 9 | Input loudness, left control part | OUTLF | 25 | Output left front |
| CD GND | 10 | Ground input CD | DIG GND | 26 | Bus ground |
| IN L3 | 11 | Input 3 left source (CD) | SDA | 27 | I2C Data |
| IN L2 | 12 | Input 2 left source | SCL | 28 | I2C Clock |
| IN L1 | 13 | Input 1 left source | CREF | 29 | Supply reference capacito |
| CSM | 14 | Soft mute control capacitor | Vs | 30 | Supply voltage |
| IN L | 15 | Input right | GND | 31 | Ground |
| OUT L | 16 | Output left | TRL | 32 | Treble control capacitor le |



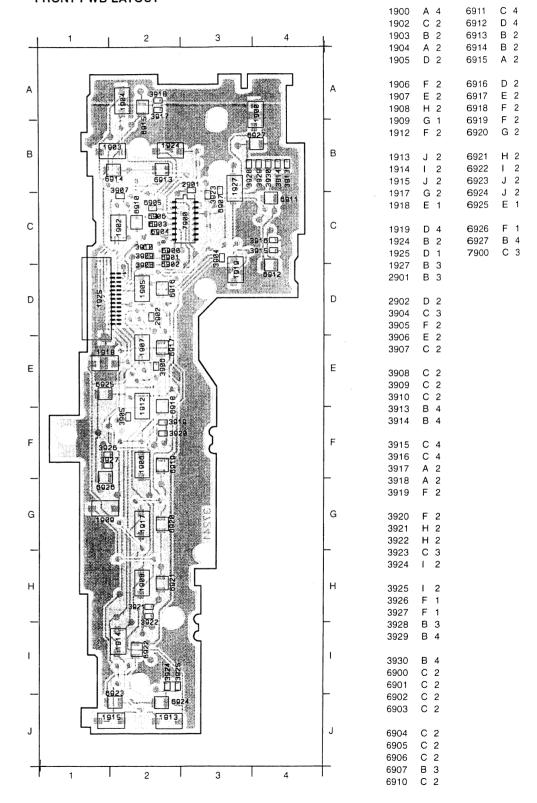
22DC449/62 - 22DC4-59/62



PCS 98 147

22DC449/62E - 22DC459/62E.J62S FRONT PWB LAYOUT 1902 H 4 6905 E 1 6906 1903 1 4 E 1 1904 J 4 6907 E 1 1905 G 4 6910 I 1 1906 E 4 6911 I 1 1907 G 4 3924 🗆 3925 🗀 1908 D 4 6913 F 1 6914 H 1 1909 D 4 8924 0923 1913 1915 6915 I 2 1912 F 4 В 1913 B 4 6916 D 1 1914 C 4 6917 D 1 1915 B 4 6918 E 1 1914 6919 F 1 1917 D 4 1918 G 4 6920 G 1 С 1919 A 4 6921 G 1 1924 | 4 6922 A 1 3924 A 1 . . . 1908 1925 G 1 1927 I 3 6923 B 1 1930 H 4 6924 B 1 D D 6925 C 1 1931 J 4 1909 D 34.2 1917 2901 F 1 6926 E 1 2902 G 1 6927 J 2 8928 3904 G 1 6928 E 2 \$660 | H 3905 G 1 392 392 E. 3906 G 1 1906 3920 3919 3907 G 1 3908 G 1 3909 H 1 29010 08 8 1912 3910 H 1 3913 J 2 3914 J 2 3915 J 1 1907 3916 J 1 3917 | 2 □3986 3918 I 2 ☐3905 ☐3904 G 3919 E 1 1905 3920 E 1 3921 H 1 3922 H 1 3923 F 1 Н 3925 B 1 3926 F 2 3927 E 2 3928 I 2 3917□ 3918□ 3929 | 2 1927 1924 1903 691g 1 3928 3930 I 2 3929□ 3930 6900 H 1 6901 H 1 3913 1904 1931 6902 H 1 6904 E 1

22DC449/62L - 22DC459/62F../62L../62Z FRONT PWB LAYOUT

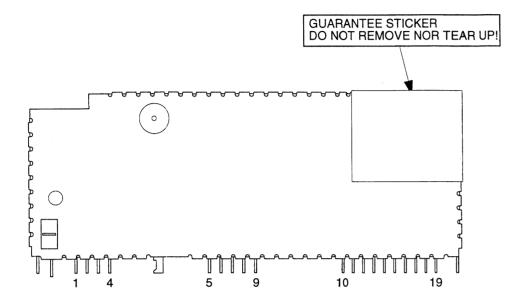


PCS 98 148

3

IC96 MODULE

Not reparable module. Do not open and do not try to repair yourself!



Connections

2 Ground

Inlock detector pin 5

Vcc 8.5V

Ground

8 Vcc 5.0V

10 Multiplex / RDS output signal

11 Level

12 I²C SDA 13 I²C SCL

15 tuner output L

16 tuner output R

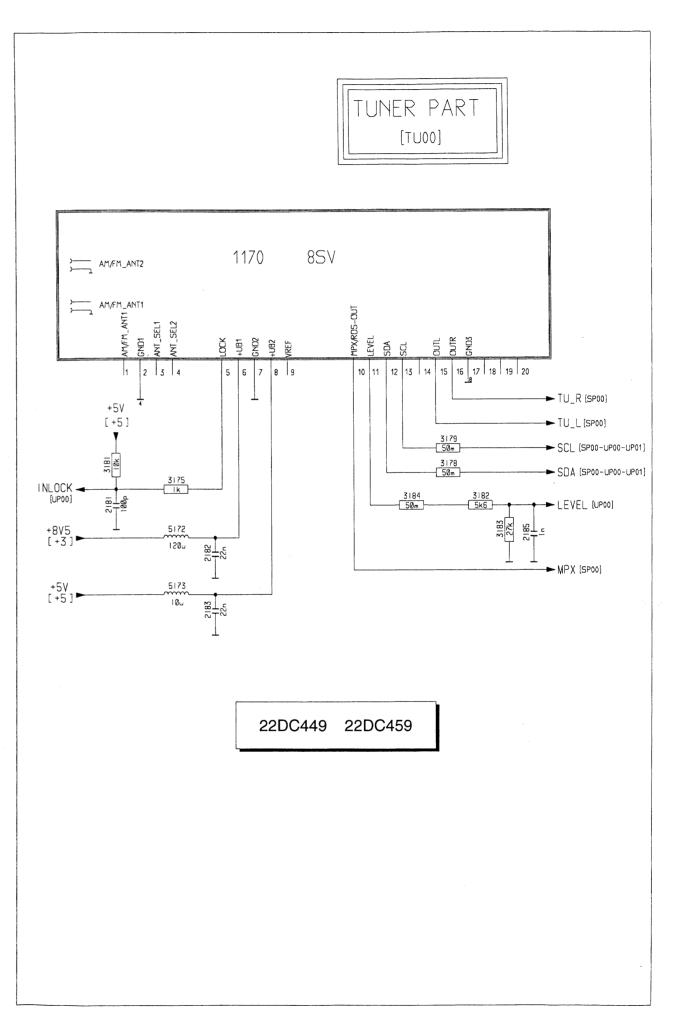
17 Ground

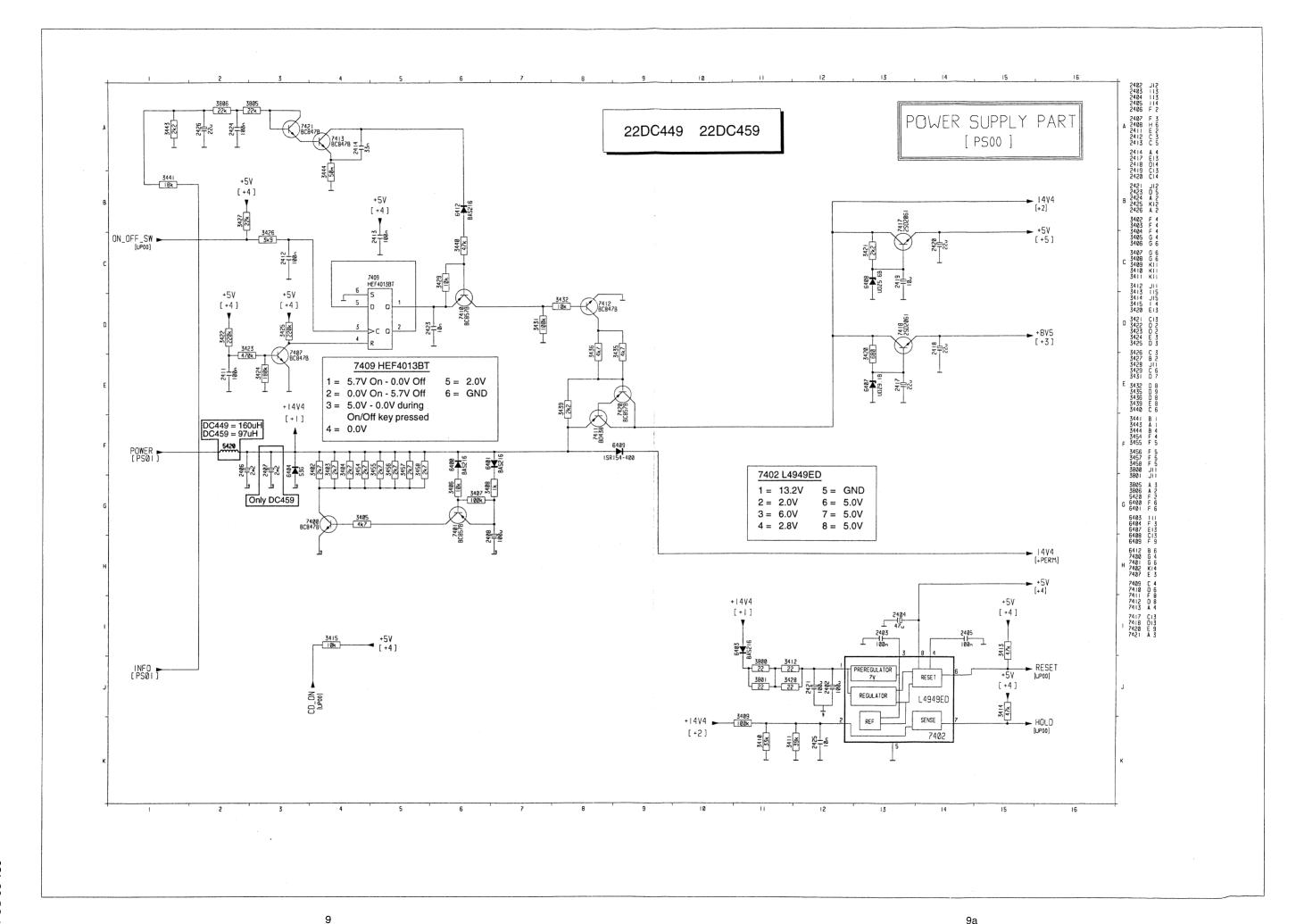
Quick reference data:

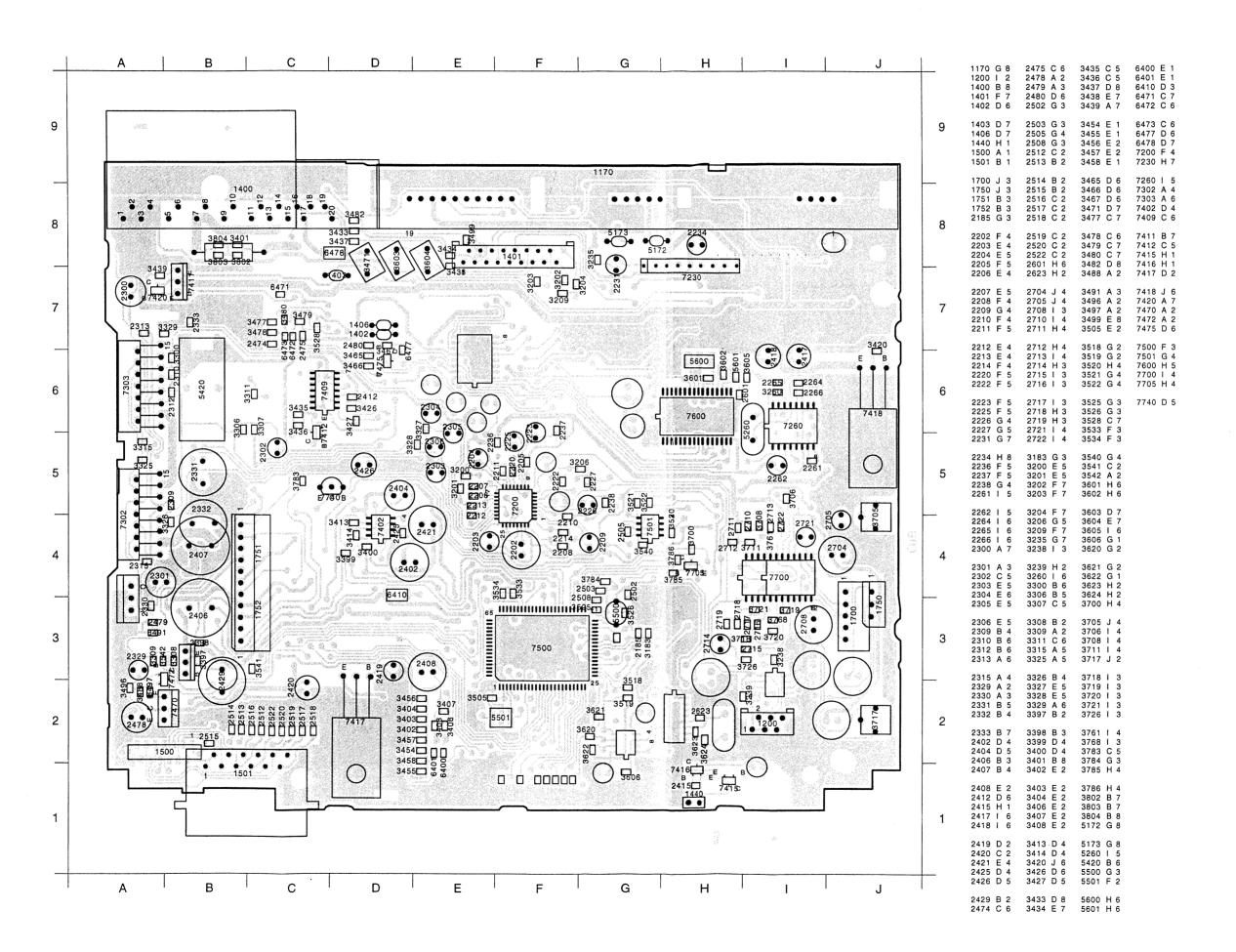
- 1) AM part
 - -Longwave/Mediumwave 144-1710 KHz (inclusive USA)
 - -Shortwave 5850-6250 KHz 49 meter band
 - -AM double super concept
 - -AM IF1 10.7MHz
- -AM IF2 450KHz
- -First VCO frequency above input signal frequency
- -Second X-tal oscillator frenquency below IF1
- -Usable sensivity $\alpha 26 dB MW = 14 \mu V typ$.

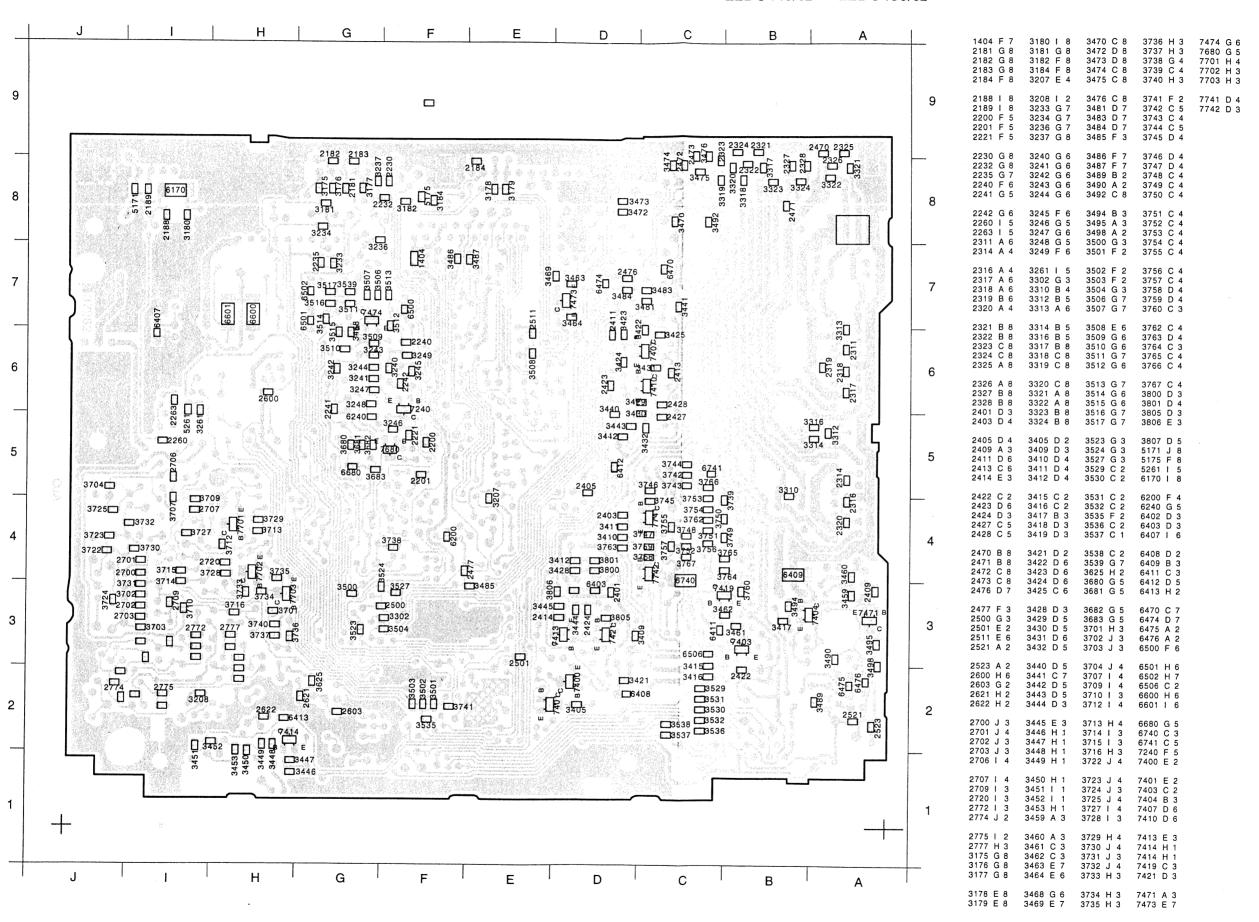
- 1) FM part
 - -FM 87.5 108MHz
- -FM double super concept
- -FM IF1 72.2MHz
- -FM IF2 10.7MHz
- -First VCO frequency above input signal frequency -Second X-tal oscillator frequency below IF1 -Usable sensivity α26dB =2.5μV typ.

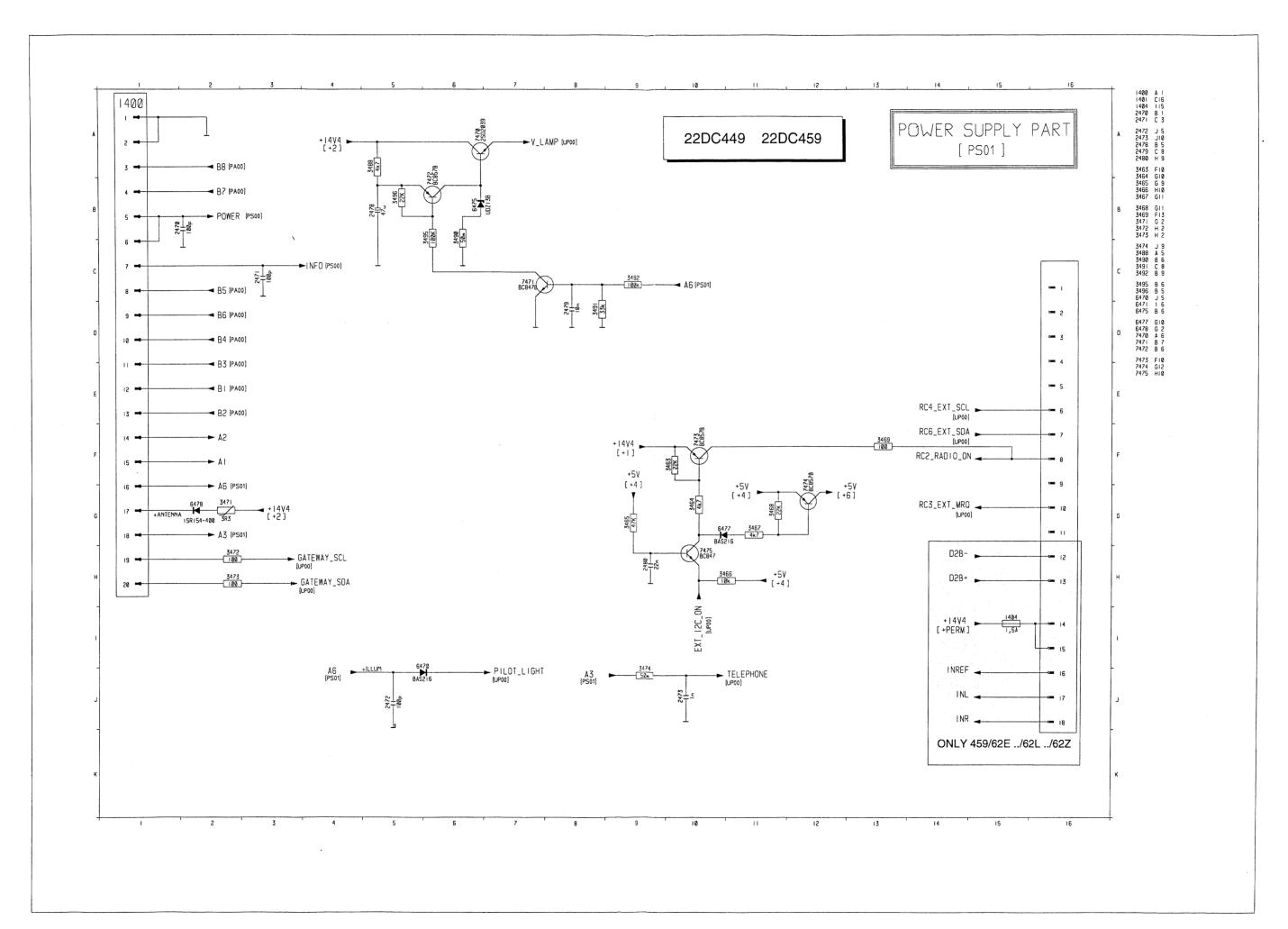
- -THD 1mV $\delta f = 75KHz = 0.5\%$ typ
- -Signal to noise ratio = 65dB typ
- -Locktime synthetizer <2mSec

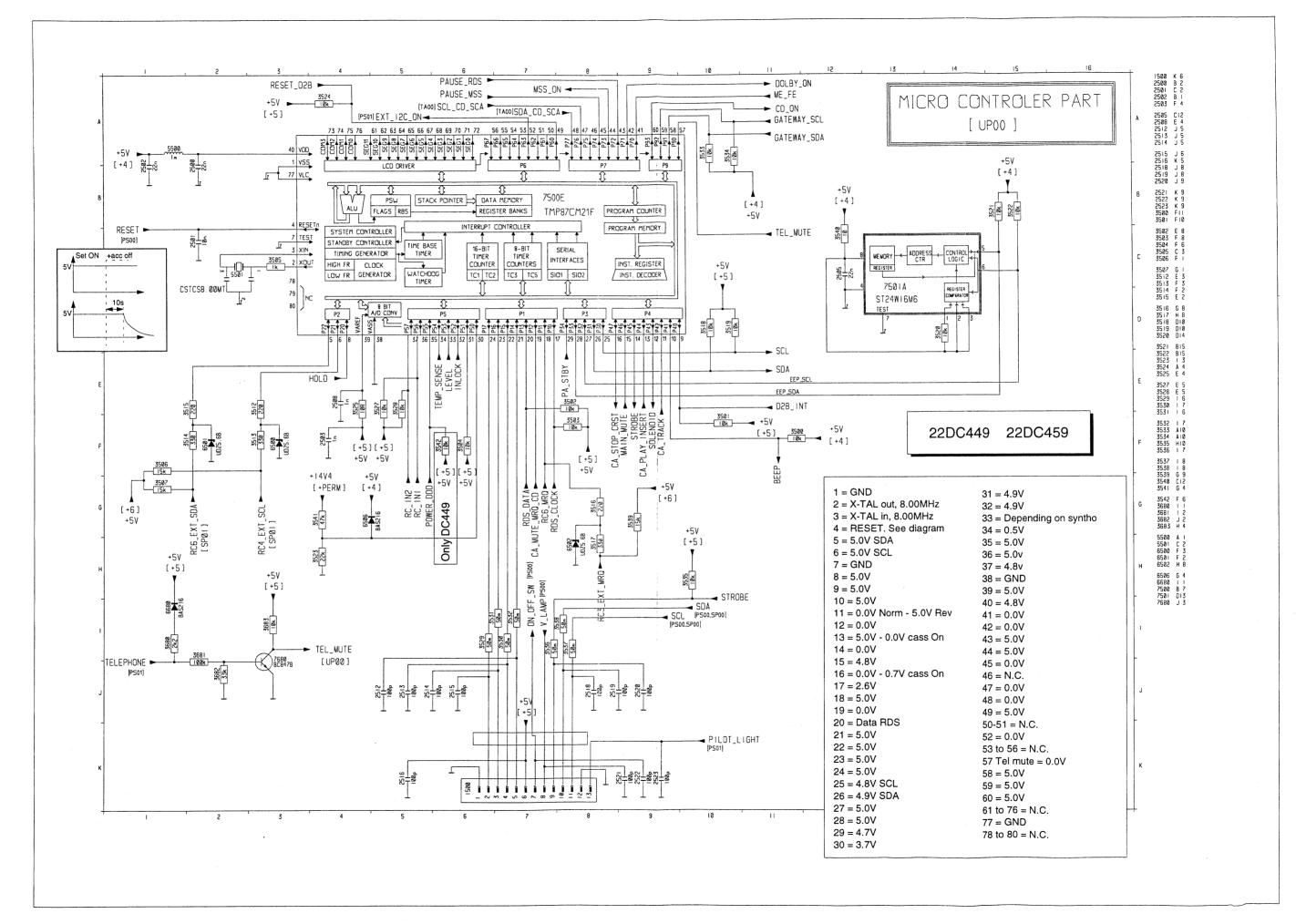


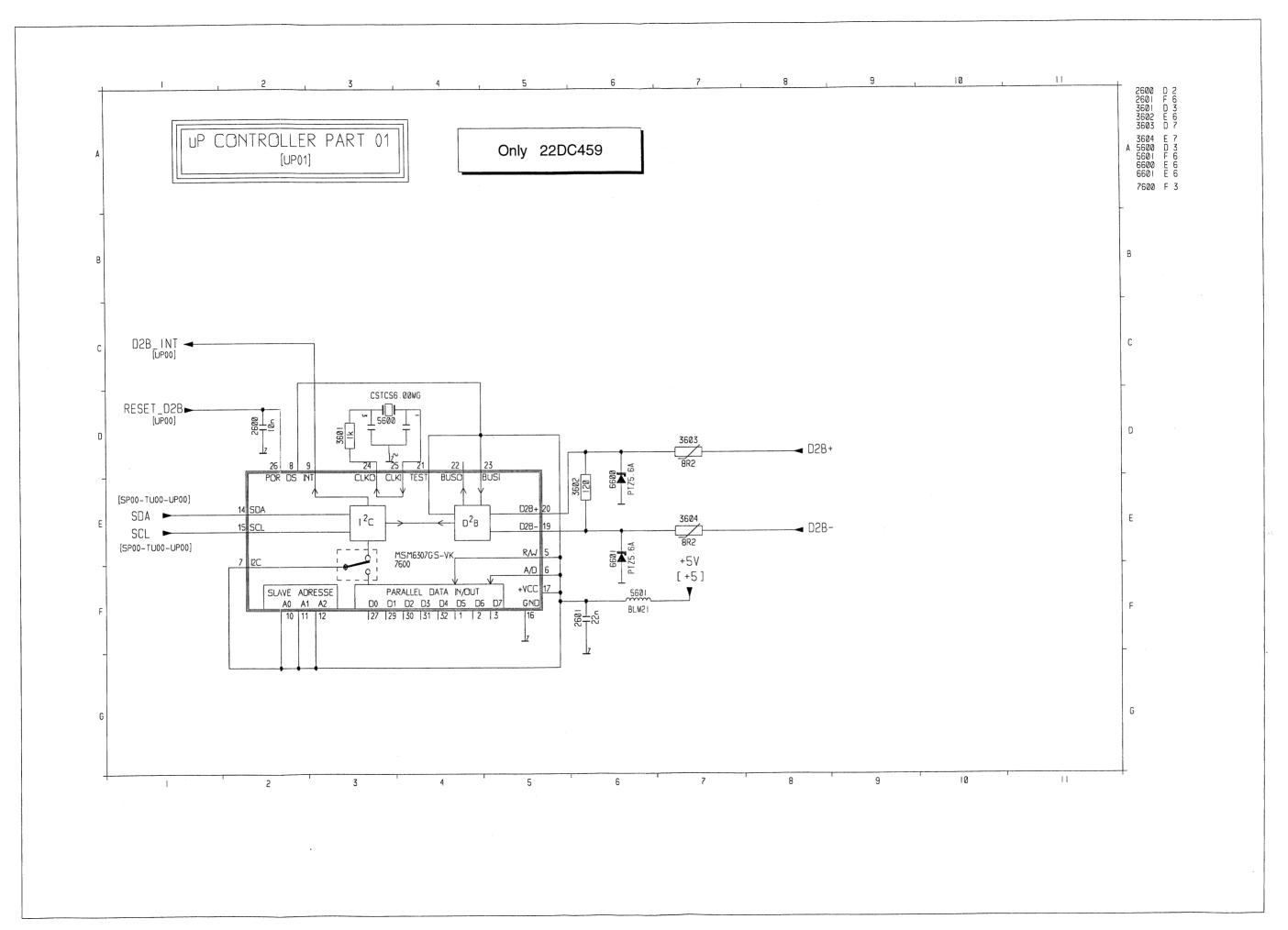


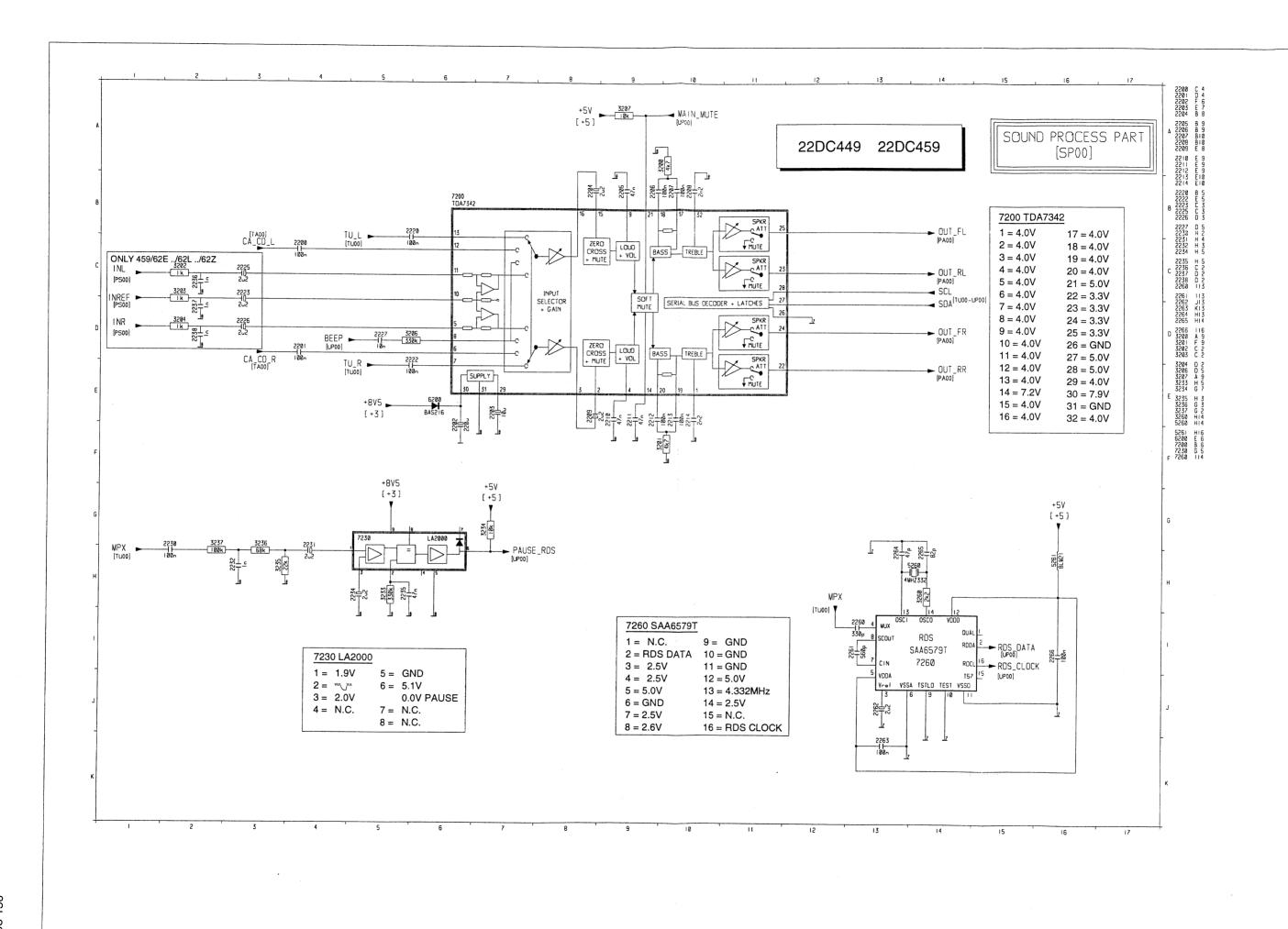


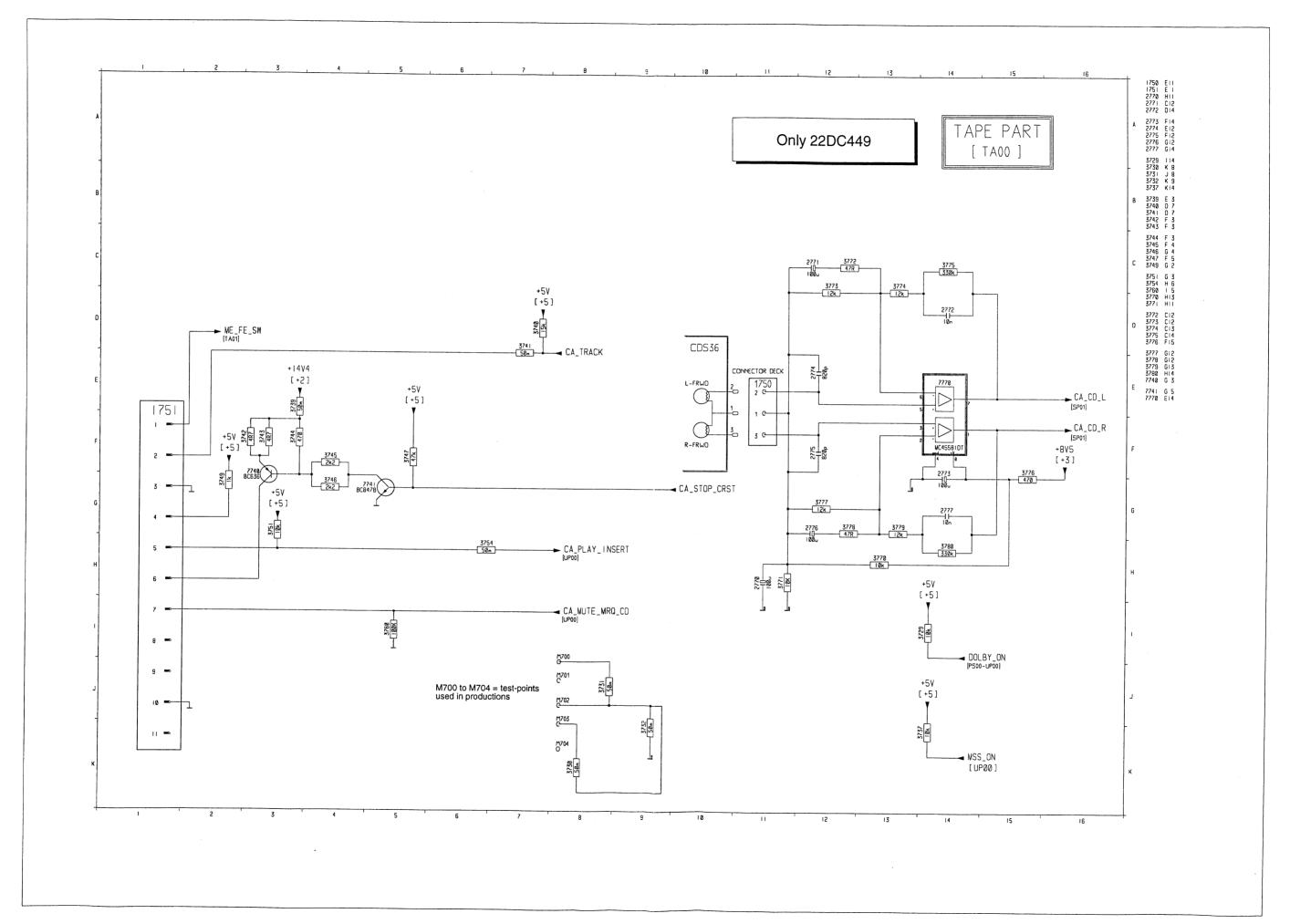




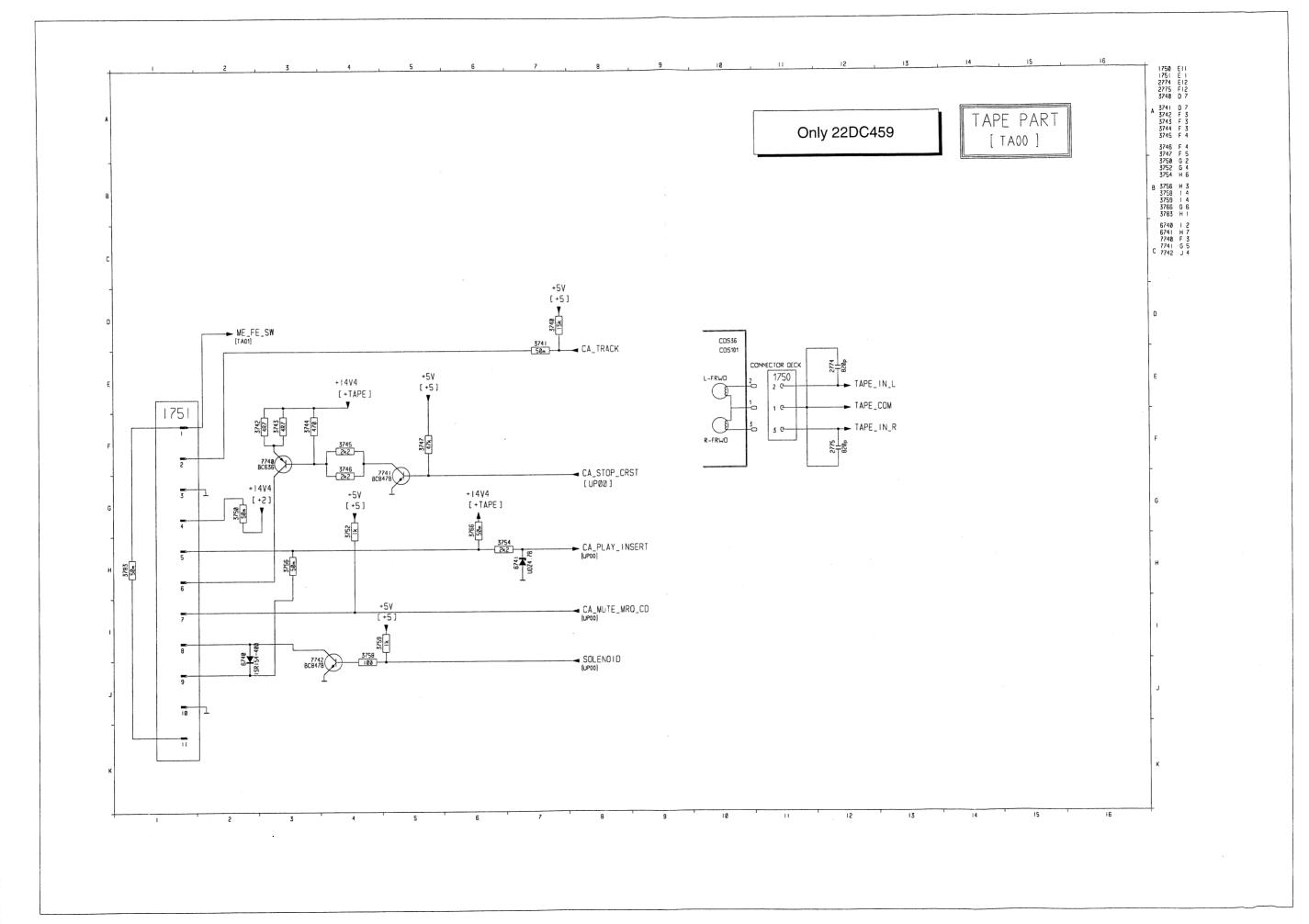


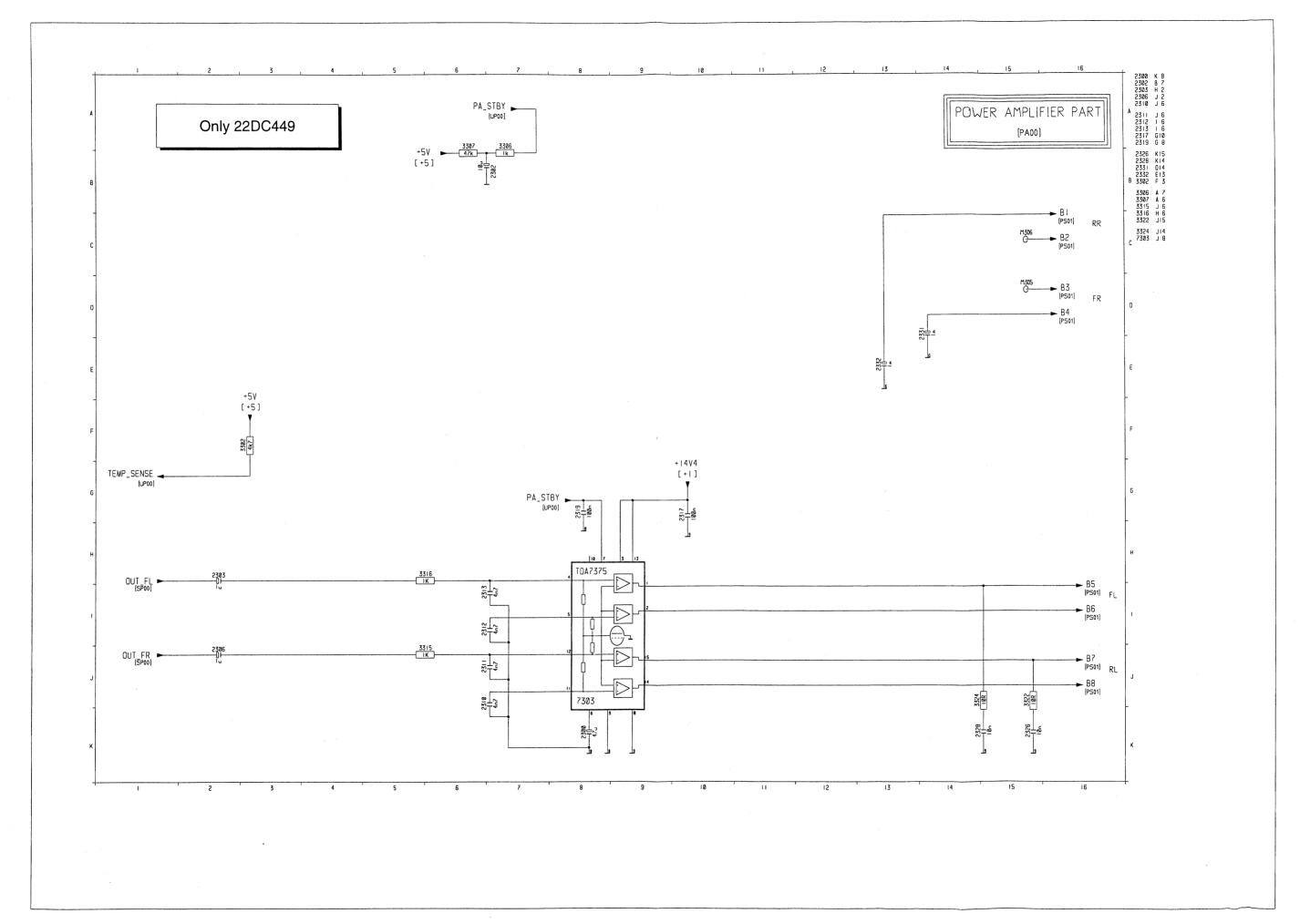


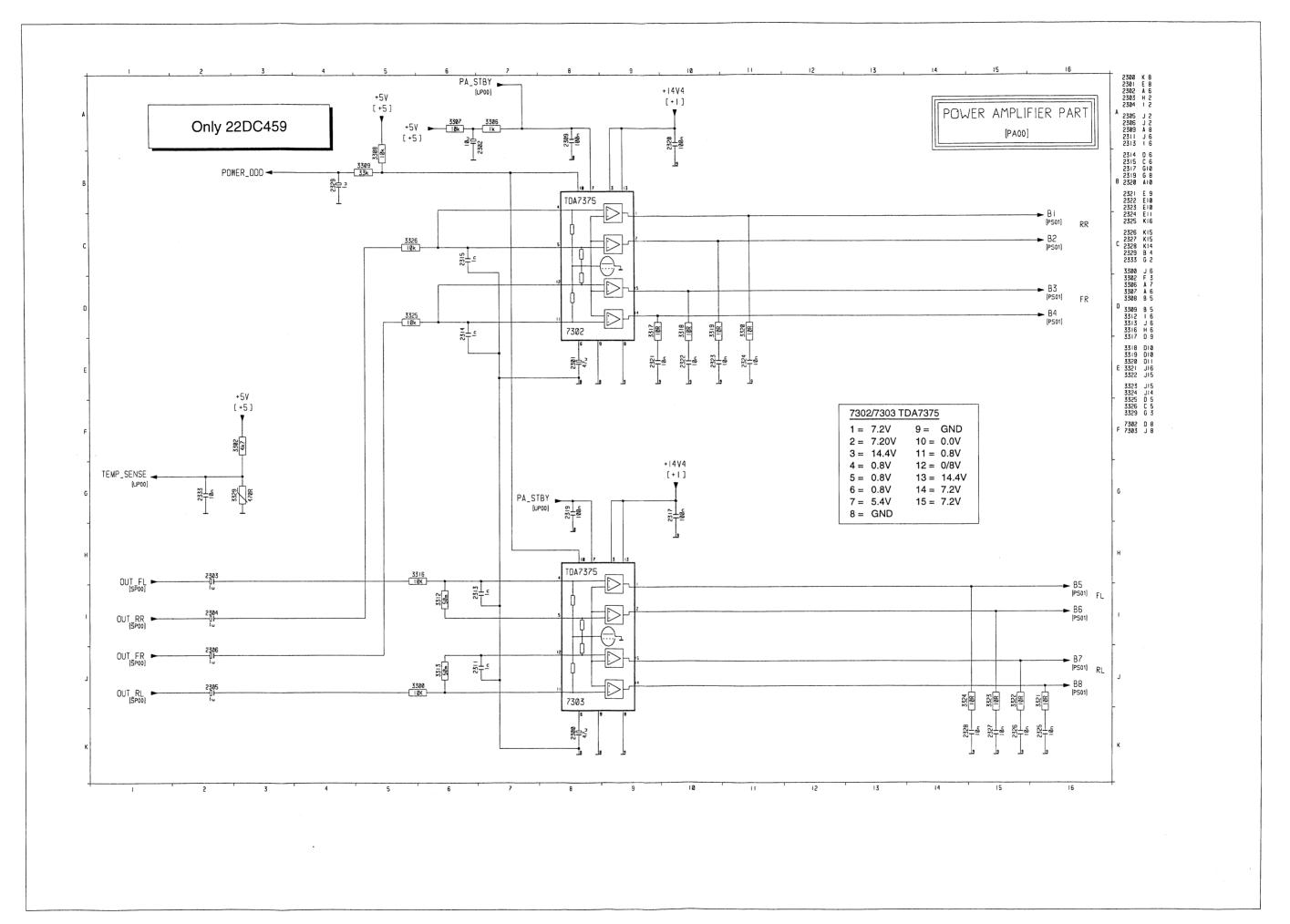




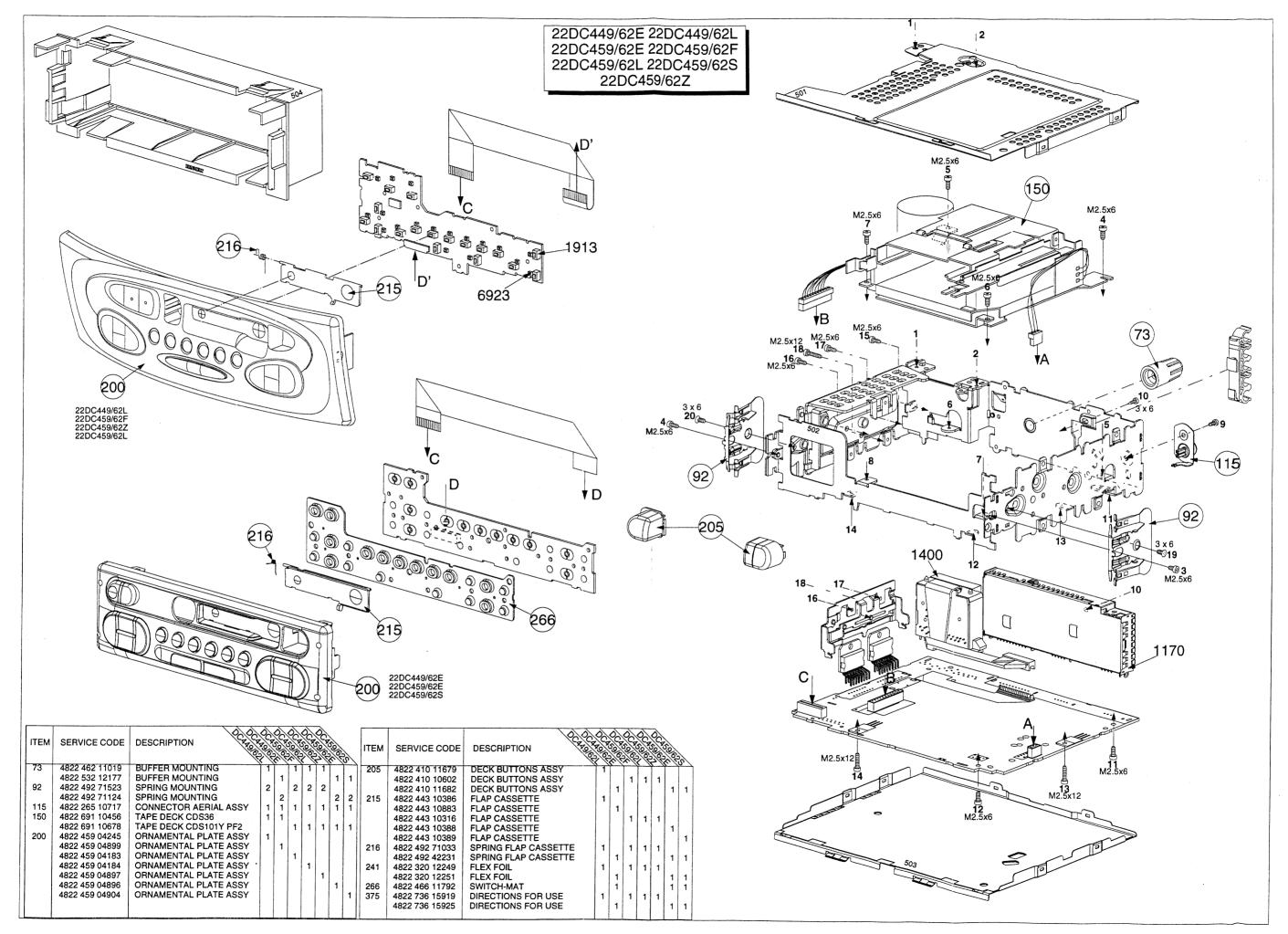
PCS 98 157







PCS 98 161



| Mise | cellaneous | | OC _{RAO} | OCAROLO SOL | OC ASOLO | OCH SO | OCA59/6 | OC#59/5 | OCA59 | £3/ |
|----------------|----------------------------------|-------------------------------|-------------------|-------------|----------|--------|---------|---------|-------|-----|
| 1170 | 4822 210 10741 | TUNER IC96 8SV | | 1 | 1 | 1 | _ | | _ | _ |
| 1400 | 4822 265 11212 | CONN. BLOCK A4-7W-ABD | | | 1 | ' | 1 | 1 | 1 | 1 |
| 1400 | | | | 1 | 1 | 1 | 1 | | 1 | |
| | 4822 265 11213 | CONN. BLOCK A4-20W-ABD | | 1 | | 1 | 1 | | 1 | 1 |
| 1400 | 4822 265 11217 | CONN. BLOCK A4-20W-ABC10D | | | | | 1 | 1 1 | 1 1 | 1 |
| 1404 | 4822 252 51164 | FUSE 1,50A 32V 3,2X1,6X1,2 | | | | | 1 | i | 1 | |
| 1751 | 4000 005 44444 | COMMENTOR (445) | | | | | | | | |
| 1751 | 4822 265 11111 | CONNECTOR (11P) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1900 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1902 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 1 | 1 | 1 | 1 1 | 1 | 1 | 1 |
| 1903 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1904 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | | 1 | 1 1 | ; | | |
| | | | | | | | | ' | | |
| 1905 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | | 1 | 1 | 1 | | |
| 1906 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | | 1 | 1 1 | 1 1 | | |
| 1907 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | 1 | 1 | 1 | 1 | | |
| 1908 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | | 1 | 1 | | | |
| 1909 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | | | 1 | 1 | 1 | 1 | |
| | 1022 27 0 100 10 | om nor our rood ordinari | | 1 ' | | 1 | 1 | 1 | | |
| 1912 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | | 1 | 1 | 1 | | İ |
| 1913 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | | 1 | 1 | 1 | | |
| 1914 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | | | 1 | 1 | | 1 |
| 1915 | | | | 1 | 1 | 1 | 1 | 1 | | |
| | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | | 1 | 1 | 1 | | |
| 1917 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | | 1 | 1 | 1 | | |
| 1918 | 4822 276 13948 | SWI TACT SM 1600 SKOMM | | | | | | | | |
| | | SWI TACT SM 160G SKQMAH | | 1 | | 1 | 1 | 1 | 1 | 1 |
| 1919 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | | 1 | 1 | 1 | | |
| 1924 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | | 1 1 | 1 | 1 | | |
| 1927 | 4822 276 13948 | SWI TACT SM 160G SKQMAH | | 1 | | 1 | 1 | 1 | 1 | |
| 2181 | 5322 122 32531 | 100PF 5%NP0 50V | | 1 | 1 | ; | | 1 | ١. | |
| | | | | +- | + ' | ' | 1 | 1 | 1 | 1 |
| 41- | | | | | | | | | | |
| 2182 | 5322 122 32654 | 22NF10%X7R 63V | | 1 | 1 | 1 | 1 | 1 | 1 | ١. |
| 2183 | 5322 122 32654 | 22NF10%X7R 63V | | | 1 | 1 | 1 | 1 | | 1 |
| 2185 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5322 122 34123 | 1NF10%X7R 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2200 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 1 | 1 | 1 | 1 1 |
| 2201 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2202 | 4900 104 00500 | 000115 4017 | | | | | | | | |
| | 4822 124 23582 | 220UF 10V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2203 | 4822 124 41017 | 10UF 16V | | 1 | 1 | 1 1 | 1 | 1 1 | 1 | 1 1 |
| 2204 | 4822 124 23504 | 2.2UF20% 50V | | 1 1 | 1 | 1 1 | 1 | 1 | 1 | 1 |
| 2205 | 4822 126 13343 | 47NF10% X7R 25V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2206 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | | 1 | 1 1 | 1 1 | 1 1 | 1 1 | 1 1 |
| | | | | ' | ' | | ' | ' | Ι' | ' |
| 2207 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2208 | 4822 122 33127 | 2,2NF10%X7R 63V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2209 | 4822 124 23504 | 2.2UF20% 50V | | 1 | l i | li | 1 | li | li | i |
| 2210 | 4822 126 13343 | 47NF10% X7R 25V | | ; | ; | | i | | | 1 |
| 2211 | 4822 126 13343 | 47NF10% X7R 25V | | 1 | 1 1 | 1 1 | 1 1 | 1 1 | 1 1 | 1 1 |
| | | | | ' | Ι΄. | ' | ' | ' | ' | ' |
| 2212 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2213 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | i | i | 1 | 1 | 1 | Į. |
| 2214 | 4822 122 33127 | 2,2NF10%X7R 63V | | | | 1 | 1 | | 1 | 1 |
| 2220 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2222 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2223 | 4822 124 22504 | 2 21 15209/ 501/ | | | | | | | | |
| 2223 2225 | 4822 124 23504 4822 124 23504 | 2.2UF20% 50V | | | | | 1 | 1 | 1 | |
| | | 2.2UF20% 50V | | | | | 1 | 1 | 1 | |
| 2226 | 4822 124 23504 | 2.2UF20% 50V | | 1 | | l | 1 | 1 | 1 | |
| 2227 | 5322 122 34098 | 10NF10%X7R 63V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2230 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 | i | | 1 |
| 0001 | 4000 40 | 2.11 | | | | | | | | |
| 2231 | 4822 124 23504 | 2.2UF20% 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2232 | 5322 122 34123 | 1NF10%X7R 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2234 | 4822 124 23504 | 2.2UF20% 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2235 | 4822 126 13343 | 47NF10% X7R 25V | | 1 | 1 | | 1 | | | i |
| 2236 | 5322 122 34123 | 1NF10%X7R 50V | | ' | ' | ' | 1 | 1 | 1 | 1 |
| · - | | | | | | | ' | 1 | 1 | |
| 2237 | 5322 122 34123 | 1NF10%X7R 50V | | | | | 1 | 1 | 1 | |
| | | | | | | | ' | ' | ' | |

| JL | | | | | 02 45 | | | | | | | |
|--------------|----------------------------------|---|------|----------|---|--------|----------|-------|-----|----------|--|--|
| 71 | | | 18/6 | 5 80 g | 3,00 | 5, 796 | 2 \ 39 C | 3. VS | | <u>É</u> | | |
| | | | | <u> </u> | 14 / | × / | 8/ | 2/ | 14/ | 2/ | | |
| 2238 | 5322 122 34123 | 1NF10%X7R 50V | | | | | 1 | 1 | 1 | | | |
| 2260 | 5322 122 31863 5322 116 80853 | 330PF 5%NP0 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2262 | | 560PF 5%NP0 63V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2263 | 4822 124 23504 4822 126 13196 | 2.2UF20% 50V | | 1 | 1 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2203 | 4022 120 13190 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2264 | 4822 126 13692 | 47PF 1% NP0 63V | | 1 | 1 | 1 | 1 | , | 1 | , | | |
| 2265 | 4822 126 13695 | 82PF 1% NP0 63V | | ; | ' | ; | ; | 1 1 | ; | 1 1 | | |
| 2266 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | ; | | 1 ; | 1 ; | 1 | | 1 1 | | |
| 2300 | 4822 124 22646 | 47UF20% 16V | | 1 | ; | ; | ; | ; | | 1 | | |
| 2301 | 4822 124 22646 | 47UF20% 16V | | ' | ' | ; | ; | ; | 1 | | | |
| | | | | | 1 | ' | 1 | 1 | | 1 | | |
| 2302 | 4822 124 41017 | 10UF 16V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2303 | 4822 124 23282 | 1UF20% 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2304 | 4822 124 23282 | 1UF20% 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 1 | | |
| 2305 | 4822 124 23282 | 1UF20% 50V | | | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2306 | 4822 124 23282 | 1UF20% 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | | | | 1 | | | | | 1 | | |
| 2309 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | | | 1 | 1 | 1 | 1 | 1 | | |
| 2310 | 5322 126 10223 | 4,7NF10%X7R 63V | | 1 | 1 | | | 1 . | | | | |
| 2311 | 5322 122 34123 | 1NF10%X7R 50V | | | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2311 | 5322 126 10223 | 4,7NF10%X7R 63V | | 1 | 1 | | | | | 1 | | |
| 2312 | 5322 126 10223 | 4,7NF10%X7R 63V | | 1 | 1 | | | | | | | |
| 2313 | 5322 122 34123 | 1NF10%X7R 50V | | | | | ١. | ١. | ١. | ١. | | |
| 2313 | 5322 126 10223 | 4,7NF10%X7R 63V | | | | 1 | 1 | 1 | 1 | 1 | | |
| 2314 | 5322 120 10223 | | | 1 | 1 | ١. | ١. | ١. | | 1 . | | |
| 2315 | 5322 122 34123 | 1NF10%X7R 50V | | | | 1 | 1 | 1 | 1 | 1 | | |
| 2317 | 4822 126 13196 | 1NF10%X7R 50V 0805 X7R 25V 100N PM10 | | | ١., | 1 | 1 | 1 | 1 | 1 | | |
| 2017 | 4022 120 10130 | 0003 X/H 25V 100N PW10 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2319 | 4822 126 13196 | 0805 X7R 25V 100N PM10 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2320 | 4822 126 13196 | 0805 X7R 25V 100N PM10 | | ' | Ι. | 1 | 1 | 1 | ; | 1 | | |
| 2321 | 5322 122 34098 | 10NF10%X7R 63V | | | | i | ; | ; | 1 | | | |
| 2322 | 5322 122 34098 | 10NF10%X7R 63V | | | | i | 1 | ; | ; | | | |
| 2323 | 5322 122 34098 | 10NF10%X7R 63V | | | | 1 | 1 | 1 | 1 | 1 | | |
| 2324 | 5322 122 34098 | 10NE100/V7D 00V | | | 1 | | | | | | | |
| 2325 | 5322 122 34098 | 10NF10%X7R 63V | | | | 1 | 1 | 1 | 1 | 1 | | |
| 2326 | 5322 122 34098 | 10NF10%X7R 63V 10NF10%X7R 63V | | | ١. | 1 | 1 | 1 | 1 | 1 1 | | |
| 2327 | 5322 122 34098 | 10NF10%X7R 63V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 1 | | |
| 2328 | 5322 122 34098 | 10NF10%X7R 63V | | | ١., | ! | 1 | 1 | 1 | | | |
| | 0022 122 0 1000 | 10141 10/62/14 057 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2329 | 4822 124 23282 | 1UF20% 50V | | | | 1 | 1 | 1 | 1 | 1 1 | | |
| 2331 | 4822 124 80061 | 1000UF20% 25V | | 1 | 1 | l ' | ' | ' | ' | 1 ' 1 | | |
| 2332 | 4822 124 80061 | 1000UF20% 25V | | 1 | ; | | | | | | | |
| 2333 | 5322 122 34098 | 10NF10%X7R 63V | | · | l ' | 1 | 1 | 1 | 1 | 1 1 | | |
| 2402 | 4822 124 11952 | 100UF 20% 16V | | 1 | 1 | i | li | 1 | 1 | ; | | |
| 0.465 | | | | | | | | ` | . | | | |
| 2403 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1. | 1 | 1 | 1 | 1 | | |
| 2404 | 4822 124 22646 | 47UF20% 16V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2405 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2406 | 4822 124 80769 | 2200UF20% 16V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2407 | 4822 124 80769 | 2200UF20% 16V | | | | 1 | 1 | 1 | 1 | 1 | | |
| 2408 | 4822 124 11952 | 100UF 20% 16V | | | | | | | ١. | | | |
| 2411 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2412 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 2413 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2414 | 4822 126 12105 | 33NF 5%X7R 63V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 25111 3707171 304 | | ' | ' | i | 1 | 1 | 1 | 1 | | |
| 2417 | 4822 124 23279 | 22UF20% 16V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2418 | 4822 124 23279 | 22UF20% 16V | | i | 1 | 1 | 1 | 1 | ; | 1 | | |
| 2419 | 4822 124 41017 | 10UF 16V | | i | 1 | 1 | 1 | 1 | 1 | | | |
| 2420 | 4822 124 23279 | 22UF20% 16V | | i | i | 1 | 1 | 1 | 1 | 1 | | |
| 2421 | 4822 124 11952 | 100UF 20% 16V | | 1 | i | 1 | 1 | 1 | 1 | 1 | | |
| 0400 | F000 400 04000 | | | | | | | | | | | |
| 2423 2424 | 5322 122 34098 | 10NF10%X7R 63V | | 1 | 1 | 1 | 1 | 1 | 1 | 1. | | |
| 2424 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2420 | 5322 122 34098 | 10NF10%X7R 63V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |

| 11- | | | OC 449 (62) | A DO RAGION | Profes | CASO (SZ | CASOLOZ | Asolfok Asolfok | CASOLOGI | 2 |
|------|----------------|-------------------------------|---------------|-------------|--------|----------|---------|--------------------|----------|-----|
| 2426 | 4822 124 23279 | 22UF20% 16V | \rightarrow | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2470 | 5322 122 32531 | 100PF 5%NP0 50V | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2471 | 5322 122 32531 | 100PF 5%NP0 50V | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2472 | 5322 122 32531 | 100PF 5%NP0 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2472 | 5322 122 34123 | 1NF10%X7R 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 24/3 | 3322 122 34123 | 1141 10 /62/11 30 0 | | ١. | . | . | . | . | . | . |
| 0470 | 4822 124 22646 | 47UF20% 16V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2478 | | 10NF10%X7R 63V | | 1 | i | 1 | 1 | 1 | 1 | 1 |
| 2479 | 5322 122 34098 | | | il | 1 | 1 | 1 | 1 | 1 | 1 |
| 2480 | 5322 122 32654 | 22NF10%X7R 63V | 1 | | | | 1 | i | - 1 | i |
| 2500 | 5322 122 32654 | 22NF10%X7R 63V | - 1 | 1 | 1 | 1 | | - 1 | 1 | |
| 2501 | 5322 122 34098 | 10NF10%X7R 63V | - 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | 1 | | | | | | | |
| 2502 | 5322 122 32654 | 22NF10%X7R 63V | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2503 | 5322 122 34123 | 1NF10%X7R 50V | - 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2505 | 5322 122 32654 | 22NF10%X7R 63V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2508 | 5322 122 34123 | 1NF10%X7R 50V | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2512 | 5322 122 32531 | 100PF 5%NP0 50V | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | | | | | |
| 2513 | 5322 122 32531 | 100PF 5%NP0 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2514 | 5322 122 32531 | 100PF 5%NP0 50V | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2515 | 5322 122 32531 | 100PF 5%NP0 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2516 | 5322 122 32531 | 100PF 5%NP0 50V | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2518 | 5322 122 32531 | 100PF 5%NP0 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2516 | 3322 122 32331 | 10011 378141 0 30 0 | | | · | · | · | | | |
| 0540 | E000 100 20E21 | 100PF 5%NP0 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2519 | 5322 122 32531 | 100PF 5%NP0 50V | | 1 | 1 | 1 | | 1 | 1 | 1 |
| 2520 | 5322 122 32531 | | | | 1 | 1 | 1 | 1 | ; | 1 |
| 2521 | 5322 122 32531 | 100PF 5%NP0 50V | | 1 | | ı | 1 | 1 | 1 | 1 |
| 2522 | 5322 122 32531 | 100PF 5%NP0 50V | l | 1 | 1 | | 1 | 1 | 1 | 1 |
| 2523 | 5322 122 32531 | 100PF 5%NP0 50V |] | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | 1 | | | | | | | |
| 2600 | 5322 122 34098 | 10NF10%X7R 63V | 1 | - | | l | 1 | 1 | 1 | |
| 2601 | 5322 122 32654 | 22NF10%X7R 63V | 1 | | | Ι. | 1 | 1 | 1 | |
| 2702 | 5322 122 32268 | 4822 124 23279 | 1 | | | 1 | 1 | 1 | 1 | 1 |
| 2703 | 5322 122 32268 | 4822 124 23279 | | | | 1 | 1 | 1 | 1 | 1 |
| 2704 | 4822 124 11952 | 100UF 20% 16V | | | | 1 | 1 | 1 | 1 | 1 |
| 1 | | | | | | | | ١. | | 1 |
| 2705 | 4822 124 41017 | 10UF 16V | 1 | | | 1 | 1 | 1 | 1 | ; |
| 2706 | 5322 122 34098 | 10NF10%X7R 63V | | | İ | 1 | 1 | 1 | 1 | 1 |
| 2707 | 5322 126 10223 | 4,7NF10%X7R 63V | | | 1 | 1 | 1 | 1 | 1 | 1 |
| 2708 | 4822 124 11952 | 100UF 20% 16V | | | | 1 | 1 | 1 | 1 | 1 |
| 2709 | 5322 122 32654 | 22NF10%X7R 63V | ì | | | 1 | 1 | 1 | 1 | 1 |
| | | | - | | | | | | | |
| 2710 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | | | 1 | 1 | 1 | 1 | 1 |
| 2711 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | | İ | 1 | 1 | 1 | 1 | 1 |
| 2712 | 4822 126 13849 | 220NF 10% 16V | | | | 1 | 1 | 1 | 1 | 1 |
| 2713 | 4822 126 13188 | 15NF 5% X7R 63V | | | | 1 | 1 | 1 | 1 | 1 |
| 2714 | 4822 124 41017 | 10UF 16V | | | | 1 | 1 | 1 | 1 | 1 |
| 1 | | | | | | | | | | |
| 2715 | 5322 122 34098 | 10NF10%X7R 63V | | | | 1 | 1 | 1 | 1 | 1 |
| 2716 | 4822 126 13188 | 15NF 5% X7R 63V | 1 | | | 1 | 1 | 1 | 1 | 1 |
| 2717 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | | | 1 | 1 | 1 | 1 | 1 |
| 2718 | 4822 126 13196 | CER2 0805 X7R 25V 100N PM10 R | | | | 1 | 1 | 1 | 1 | 1 |
| 2719 | 4822 126 13190 | 220NF 10% 16V | | | | 1 | 1 | 1 | 1 | 1 |
| 2/13 | 7022 120 13043 | 220111 1070 101 | | | | | | | | |
| 2720 | 5322 126 10223 | 4,7NF10%X7R 63V | | | | 1 | 1 | 1 | 1 | 1 |
| 1 | | 10UF 16V | | | | 1 | 1 | 1 | 1 | 1 |
| 2721 | 4822 124 41017 | 100F 16V 100PF 5%NP0 50V | I | | | ; | 1 | 1 | 1 | 1 |
| 2722 | 5322 122 32531 | 100F 5%NF0 50V | | 1 | 1 | Ι΄ | ' | · . | ' | |
| 2770 | 4822 124 11952 | | | | ; | | | | | |
| 2771 | 4822 124 11952 | 100UF 20% 16V | | l ' | ' | | | | | |
| 0770 | E000 100 01000 | 10NF10%X7R 63V | | 1 | 1 | | 1 | | | |
| 2772 | 5322 122 34098 | | | 1 | 1 | | | | | |
| 2773 | 4822 124 11952 | 100UF 20% 16V | l | | | | . | 1 | 1 | 1 |
| 2774 | 5322 126 10184 | 680P 5% NPO 50V | | 1 | 1 | 1 | 1 | 1 | 1 | |
| 2775 | 5322 126 10184 | 680P 5% NPO 50V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2776 | 4822 124 11952 | 100UF 20%-16V | l | 1 | 1 | | | | | |
| | | | | | | | | 1 | | |
| 2777 | 5322 122 34098 | 10NF10%X7R 63V | | 1 | 1 | | | | . | |
| 2901 | 5322 122 32654 | 22NF10%X7R 63V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 1 |
| 2902 | 5322 122 32654 | 22NF10%X7R 63V | | 1 | 1 | 1 | 1 | 1 | 1 | 1 ' |

| 11- | | | OCAROJEST | CARO GOK | Red Co | C. A.Soles | CARO (62) | CASO FOR | CASO | 8 |
|--------------|----------------------------------|------------------------------|-----------|----------|--------|------------|-----------|----------|------|-----|
| 3175 | 4822 051 20102 | 1K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| - | _ | | | | | | | | | |
| 3178 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3179 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 - | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 11 | 1 | - 1 |
| 3181 | | | | i | 1 | 1 | 1 | 1 | 1 | 1 |
| 3182 | 4822 051 20562 | 5K60 5% 0,1W | | 1 | - | 1 | 1 | | | 1 |
| 3183 | 4822 051 20273 | 27K00 5% 0,1W | | ' | - ' | ' | ' | ' | ' | 1 |
| 3184 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3200 | 4822 051 20472 | 4K70 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3201 | 4822 051 20472 | 4K70 5% 0,1W | İ | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3202 | 4822 051 20102 | 1K00 5% 0,1W | 1 | | | | 1 | 1 | 1 | |
| 3202 | 4822 051 20102 | 1K00 5% 0,1W | | | | | 1 | 1 | 1 | |
| 0200 | | | | | | | | | | |
| 3204 | 4822 051 20102 | 1K00 5% 0,1W | | 4 | 4 | 1 | 1 | 1 1 | 1 1 | 1 |
| 3206 | 4822 051 20334 | 330K00 5% 0,1W | | 1 | 1 | | 1 | | 1 | 1 |
| 3207 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 1 | |
| 3233 | 4822 051 20334 | 330K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3234 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2005 | 4822 051 20223 | 22K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3235 | | | | 1 | 1 | 1 | i | ; | 1 | 1 |
| 3236 | 4822 051 20683 | • | | 1 | 1 | | | ; | 1 | 1 |
| 3237 | 4822 051 20104 | 100K00 5% 0,1W | | | | 1 | 1 | 1 | | |
| 3260 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 ' |
| 3300 | 4822 117 10833 | 10K 1% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3302 | 4822 051 20472 | 4K70 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3306 | 4822 051 20102 | 1K00 5% 0,1W | | 1 | 1 | 1 1 | 1 1 | 1 | 1 | 1 |
| | 4822 117 10833 | 10K 1% 0,1W | | - | | 1 | 1 | 1 | 1 | 1 |
| 3307 | | | | . 1 | 1 | i i | ' | ' | | |
| 3307 | 4822 117 10834 | 47K 1% 0,1W | | | ' | 1 | 1 | 1 | 1 | 1 |
| 3308 | 4822 117 10833 | 10K 1% 0,1W | | | | ' | ' | | ' | ' |
| 3309 | 4822 051 20333 | 33K00 5% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3312 | 4822 051 20008 | 0R00 JUMP. (0805) | | | | 1 | 1 | 1 | 1 | 1 |
| 3313 | 4822 051 20008 | 0R00 JUMP. (0805) | | | | 1 | 1 | 1 | 1 | 1 |
| 3315 | 4822 051 20102 | 1K00 5% 0,1W | | 1 | 1 | | 1 | | | |
| 3316 | 4822 051 20102 | 1K00 5% 0,1W | | 1 | 1 | | | | | l |
| 2010 | 4000 447 40000 | 101/ 19/ 0.11/ | | | | ١, | 1 | 1 | 1 | 1 |
| 3316 | 4822 117 10833 | 10K 1% 0,1W 10R00 5% 0.1W | | | 1 | 1 | 1 | i | 1 | ; |
| 3317 | 4822 051 20109 | | | | | | 1 | i | 1 | Ιi |
| 3318 | 4822 051 20109 | 10R00 5% 0,1W | | | | 1 | 1 | 1 | ; | ; |
| 3319 | 4822 051 20109 | 10R00 5% 0,1W | | | | 1 | 1 | 1 | 1 | |
| 3320 | 4822 051 20109 | 10R00 5% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3321 | 4822 051 20109 | 10R00 5% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3322 | 4822 051 20109 | 10R00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | | 10R00 5% 0,1W | | l ' | | 1 | 1 | 1 | 1 | 1 |
| 3323 | 4822 051 20109 | | | 1 | 1 | | 1 | 1 | 1 | 1 |
| 3324 | 4822 051 20109 | 10R00 5% 0,1W | | ' | ' | 1 | 1 | 1 | 1 1 | |
| 3325 | 4822 117 10833 | 10K 1% 0,1W | | | | 1 | 1 | 1 | | ' |
| 3326 | 4822 117 10833 | 10K 1% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3329 | 4822 116 10062 | 470R 50% 16V PTC 0805 | | | | 1 | 1 | 1 | 1 | 1 |
| 3402 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | | 2K2 1% 0,1W | | 1 | 1 | 1 | ; | li | 1 | 1 |
| 3403 3404 | 4822 117 11449 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | i | 1 |
| 3,04 | .022 117 11770 | · | | | | . | | | | |
| 3405 | 4822 051 20472 | 4K70 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3406 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3407 | 4822 051 20104 | 100K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3408 | 4822 051 20102 | 1K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3409 | 4822 051 20104 | 100K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0440 | 4000 054 00000 | 22/00 50/ 04/4/ | | | 4 | . | 4 | 1 | 1 | 1 |
| 3410 | 4822 051 20333 | 33K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3411 | 4822 051 20393 | 39K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 1 |
| 3412 | 4822 051 20229 | 22R00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 ! |
| 3413 | 4822 117 10834 | 47K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3414 | 4822 117 10834 | 47K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ı | | | | 1 | i . | 1 | 1 | 1 | 1 | 1 |

| Γ | | | | | | | | | | |
|--------------|----------------------------------|------------------------------|----------|--------------------|--------------------|---------|-------------------|----------|--------|--------|
| | | | OCARO CO | CAAGIGO | CASSIGN | CASO GE | C RS OF C | CASO (S) | CASOR! | |
| | | | 13/63 | \ ^{x9} 63 | \\ ³ 65 | \%g_ | 109 ₆₂ | | 1096 | |
| | | | /8 | // | k /2 | , /2 | | 7 /6 | i // | \sim |
| 3415 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3420 | 4822 051 20681 | 680R00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3421 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3422 | 4822 051 20224 | 220K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3423 | 4822 051 20474 | 470K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3424 | 4822 051 20184 | 180K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3425 | 4822 051 20224 | 220K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3426 | 4822 051 20392 | 3K90 5% 0.1W | | 1 | | 1 | | 1 | 1 | 1 |
| 3427 | 4822 051 20223 | 22K00 5% 0,1W | | 1 | 1 | 1 | 1 | | 1 | |
| 3428 | 4822 051 20229 | 22R00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | i |
| | | | | | | | | | | |
| 3429 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3431 | 4822 051 20104 | 100K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3432 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3435 | 4822 051 20472 | 4K70 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3436 | 4822 051 20472 | 4K70 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3439 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3440 | 4822 117 10834 | 47K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | i | 1 |
| 3441 | 4822 117 10965 | 18K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | ; | i |
| 3443 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | ; | 1 | ; | | ; |
| 3444 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2454 | 4000 447 44 440 | 2K2 1% 0,1W | | 1 | 1 | 1 | | 1 | 1 | 1 |
| 3454 | 4822 117 11449 | | | | 1 ' | | 1 | 1 . | i ' | |
| 3455 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3456 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3457 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3458 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3463 | 4822 051 20223 | 22K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3464 | 4822 051 20472 | 4K70 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3465 | 4822 117 10834 | 47K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3466 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3467 | 4822 051 20472 | 4K70 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3468 | 4822 051 20223 | 22K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3469 | 4822 051 20101 | 100R00 5% 0,1W | | 1 | 1 | 1 | 1 i | i | li | i |
| 3471 | 4822 116 40267 | 3R3 25% 20V | | 1 | li | 1 | li | i | ; | 1 |
| 3472 | 4822 051 20101 | 100R00 5% 0,1W | | 1 | i | 1 | ; | ; | i | 1 |
| 3473 | 4822 051 20101 | 100R00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0000 H H 10 (0005) | | | ١. | | | | ١. | |
| 3474 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3488 | 4822 051 20472 | 4K70 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3490 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3491 | 4822 051 20333 | 33K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3492 | 4822 051 20104 | 100K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3495 | 4822 051 20104 | 100K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3496 | 4822 051 20223 | 22K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3500 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3501 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3502 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3503 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3504 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | ; | 1 | 1 | 1 | |
| 3505 | 4822 051 20102 | 1K00 5% 0,1W | | 1 | 1 | ; | 1 | ; | 1 | 1 |
| 3506 | 4822 051 20153 | 15K00 5% 0,1W | | 1 | 1 | 1 | ; | 1 | ; | |
| 3507 | 4822 051 20153 | 15K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0540 | 4000 447 44600 | 2000 49/ 0424 | | | | | _ | | | _ |
| 3512 | 4822 117 11503 | 220R 1% 0.1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3513 | 4822 051 20331 | 330R00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3514 | 4822 051 20331 | 330R00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3515 3516 | 4822 117 11503 4822 117 11503 | 220R 1% 0.1W 220R 1% 0.1W | | 1 | 1 | 1 | 1 | 1 1 | 1 1 | 1 1 |
| 33.0 | .522 117 11505 | | | • | ' | · | ' | · | ' | ' |
| 3517 | 4822 051 20331 | 330R00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3518 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3519 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | OC _{RRO} | CANO G | C. 859 (6) | CASOR | CR50/6 | CASOR. | OCASO OF | 35 |
|--------------|----------------------------------|------------------------------|-------------------|--------|------------|-------|--------|--------|----------|-------|
| 3520 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3521 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | |
| 1 | | | | | | | | | 1 | |
| 3522 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3523 | 4822 051 20223 | 22K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3524 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2505 | 4000 054 00400 | 10000 50/ 0.10/ | | | | | | | | ١.,١ |
| 3525 3527 | 4822 051 20109 | 10R00 5% 0,1W 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 1 | 1 1 |
| 1 | 4822 117 10833 | | | | · ' | | • | | 1 ' | 1 ' 1 |
| 3528 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 1 |
| 3529 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 1 |
| 3530 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0504 | 4000 054 00000 | ODOG HIND (OOOS) | | | | | | | ١. | |
| 3531 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 1 | 1 1 |
| 3532 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3533 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3534 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3535 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1000 051 5555 | ana uun (aaa) | | | ١. | | | | | |
| 3536 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 | |
| 3537 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 | |
| 3538 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3539 | 4822 051 20153 | 15K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3540 | 4822 051 20109 | 10R00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3541 | 4822 117 10834 | 47K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| i | | • | | | | ' | ' | ' | ' | ' |
| 3542 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | | | ١. | ١. | 1.1 |
| 3601 | 4822 051 20102 | 1K00 5% 0,1W | | | | 1 | 1 | 1 | 1 | 1 1 |
| 3602 | 4822 051 20121 | 120R00 5% 0,1W | | l | | 1 | 1 | 1 | 1 | 1 |
| 3603 | 4822 116 10063 | 8,2R 25% 30V PTC | | 1 | | 1 | 1 | 1 | 1 | 1 |
| 2604 | 4000 416 40000 | 9 0D 059/ 20V DTO | | | | | _ | _ | | |
| 3604 | 4822 116 10063 | 8,2R 25% 30V PTC | | _ | _ | 1 | 1 | 1 | 1 | |
| 3680 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | |
| 3681 | 4822 051 20104 | 100K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3682 | 4822 051 20333 | 33K00 5% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3683 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 1 |
| 3700 | 4822 117 10965 | 18K 1% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3700 | | | | | | | i ' | | 1 | 1 . 1 |
| 1 | 4822 051 20471 | 470R00 5% 0,1W | | | 1 | 1 | 1 | 1 | 1 | |
| 3705 | 4822 101 11187 | 1K 30%LIN 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3706 | 4822 051 20334 | 330K00 5% 0,1W | | | | 1 | 1 | 1 | 1 | 1 1 |
| 3707 | 4822 051 20822 | 8K20 5% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3708 | 4822 051 20184 | 180K00 5% 0,1W | | 1 | | 1 | 1 | 1 | 1 | 1 |
| 3709 | 4822 117 10507 | 24K 1% 0.1W | | | | 1 | 1 | f | i | |
| 1 | | | | | | | | 1 | 1 | |
| 3710 | 4822 051 20109 | 10R00 5% 0,1W | | 1 | | 1 | 1. | 1 | 1 | 1 1 |
| 3711 | 4822 051 20274 | 270K00 5% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3712 | 4822 117 11139 | 1K5 1% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3713 | 4822 117 10834 | 47K 1% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3714 | 4822 051 20184 | 180K00 5% 0,1W | | | | 1 | 1 | | 1 | 1 1 |
| ł | | · | | | | | | 1 | 1 | 1 |
| 3715 | 4822 117 10507 | 24K 1% 0.1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3716 | 4822 051 20471 | 470R00 5% 0,1W | | | | 1 | 1 | 1 | 1 | 1 1 |
| 3717 | 4822 101 11187 | 1K 30%LIN 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3718 | 4822 051 20822 | 8K20 5% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3719 | | | | | | 1 | | | | |
| 1 | 4822 051 20334 | 330K00 5% 0,1W | | | | | 1 | 1 | 1 | 1 |
| 3720 | 4822 051 20684 | 680K00 5% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3721 | 4822 051 20274 | 270K00 5% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3722 | 4822 051 20008 | 0R00 JUMP. (0805) | | | | 1 | 1 | 1 | 1 | 1 |
| 3723 | 4822 051 20008 | 0R00 JUMP. (0805) | | | | 1 | 1 | 1 | 1 | 1 |
| 3724 | | | | | | 1 | | | 1 | |
| 1 | 4822 051 20008 | 0R00 JUMP. (0805) | | , | , | 1 | 1 | 1 | 1 | 1 |
| 3729 | 4822 117 10833 | 10K 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3730 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | İ | | | | |
| 3731 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | | | | | |
| 3732 | 4822 051 20009 | 0R00 JUMP. (0805) | | 1 | 1 | | | | | |
| 3732 | 4822 051 20008 4822 117 11139 | 1K5 1% 0,1W | | ' | ' | 1 | 1 | 1 | 1 | 1 |
| 3734 | 4822 117 11133 | 47K 1% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 0.04 | 7022 11/ 10034 | 771X 1/0 U,1VV | | | | ' | ' | - 1 | ' ' | ' |

| 3736 4822 17 10833 10K 1% 0,1W 1 1 1 1 1 1 1 1 1 | - | | | OC _{MAG} (S) | CAAOIGO | C Real Co | CASORE | C _R G ₉ G ₆ | CAROLES CAROLES | C8596- | 2 |
|--|------------|----------------|--|-----------------------|---------|---------------|--------|--|-----------------|--------|-----|
| 3736 4822 117 10834 47K 1% 0,1W 1 1 1 1 1 1 1 1 1 | 3735 | 4822 117 10833 | 10K 1% 0.1W | | | $\overline{}$ | | | | _ | 1 |
| 3736 | 1 | 4822 117 10834 | | | | | 1 | 1 | 1 | 1 | 1 |
| 3789 4822 051 20008 ORBOUJUMP. (0805) 1 1 1 1 1 1 1 1 1 | ı | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3739 | | | | | - | | 1 | 1 | 1 | 1 | 1 |
| 3741 | ! . | | , , | | 1 | 1 | | - | | | Ì |
| 3741 | 2740 | 4922 051 20152 | 15K00 5% 0.1W | | 1 | 4 | 1 | 1 | 1 | 1 | 1 |
| 3742 4822 051 20478 4R70 5% 0,1W 1 1 1 1 1 1 1 1 1 | l | | | | | | | | | | 1 |
| 3743 | 1 | | | | | | | | | | 1 |
| 3744 | | | | | | | | | | 1 | 1 |
| 3746 4822 111449 2K2 1% 0,1W 1 | i . | | • | | | 1 1 | 1 | | | | 1 |
| 3746 4822 117 1449 2K2 1% 0,1W 1 | | | 010 401 0 411 | | | | | | | | |
| 3747 4822 117 10834 47K 1% 0,1W 1 1 1 1 1 1 1 1 1 | | | | | | | | | I | 1 | 1 |
| 3749 4822 051 20102 1K00 5% 0,1W 1 | 1 | | | | | | | | l ' | | 1 |
| 3750 4822 051 20008 0R00 JUMP. (0805) 1 1 1 1 1 1 1 1 1 | i | | | | | | 1 | ו | 1 | 1 | 1 |
| 3751 | 1 | | | | 1 | 1 | | | ١. | | |
| 3752 4822 051 20008 | 3750 | 4822 051 20008 | 0R00 JUMP. (0805) | | | | 1 | 1 | 1 | 1 | 1 |
| 3754 4822 051 20008 | 3751 | 4822 117 10833 | | | 1 | 1 | | | | | |
| 3754 4822 051 20008 | 3752 | 4822 051 20102 | | | | | 1 | 1 | 1 | 1 | 1 |
| 3756 | 3754 | 4822 051 20008 | 0R00 JUMP. (0805) | | 1 | 1 | | | | | |
| 3758 | 3754 | 4822 117 11449 | | | | | 1 | 1 | l . | 1 | 1 |
| 3759 | 3756 | 4822 051 20008 | 0R00 JUMP. (0805) | | | | 1 | 1 | 1 | 1 | 1 |
| 3759 | 3758 | 4822 051 20101 | | | | | 1 | 1 | 1 | 1 | 1 |
| 3760 | 3759 | 4822 051 20102 | 1K00 5% 0,1W | | | | 1 | 1 | 1 | 1 | 1 |
| 3766 | 1 | | | | 1 | 1 | 1 | | | | |
| 3768 | 1 | | * | | | | 1 | 1 | 1 | 1 | 1 |
| 3771 4822 117 10833 10K 1% 0,1W 1 1 1 1 1 1 3775 4822 051 20479 47R00 5% 0,1W 1 1 1 1 1 3774 4822 117 11383 12K 1% 0,1W 1 1 1 1 1 3776 4822 051 20471 470R00 5% 0,1W 1 1 1 1 1 1 1 3776 4822 051 20471 470R00 5% 0,1W 1 1 1 1 3776 4822 051 20471 470R00 5% 0,1W 1 1 1 1 3777 4822 051 20479 47R00 5% 0,1W 1 1 1 3778 4822 051 20479 47R00 5% 0,1W 1 1 1 3778 4822 051 20479 47R00 5% 0,1W 1 1 1 1 1 3784 4822 051 20334 330K00 5% 0,1W 1 1 1 1 1 1 1 1 1 | 1 | | , , | | | | 1 | 1 | 1 | 1 | 1 |
| 3771 4822 117 10833 10K 1% 0,1W 1 1 1 1 1 1 1 3775 4822 051 20479 47R00 5% 0,1W 1 1 1 1 1 3774 4822 117 11383 12K 1% 0,1W 1 1 1 1 1 3776 4822 051 20471 470R00 5% 0,1W 1 1 1 1 1 3776 4822 051 20471 470R00 5% 0,1W 1 1 1 1 3777 4822 051 20471 470R00 5% 0,1W 1 1 1 3777 4822 051 20479 47R00 5% 0,1W 1 1 1 3778 4822 051 20479 47R00 5% 0,1W 1 1 1 3778 4822 051 20479 47R00 5% 0,1W 1 1 1 1 3784 4822 117 11383 12K 1% 0,1W 1 1 1 1 1 1 1 1 1 | 2770 | 4000 117 10000 | 10K 1% 0.1W | | 1 | 1 | | | | | |
| 3772 | 1 | | | | ı | 1 | | | | | |
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| 3927 | 4822 051 20681 | 680R00 5% 0,1W | | 1 | | 1 | 1 | 1 | | |
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| 3928 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3929 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3930 | 4822 117 11449 | 2K2 1% 0,1W | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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| 5172 | 4822 157 10975 | 120UH 10% | | | | | | 1 | 1 | |
| 5173 | 4822 157 71184 | 10UH 10% | | 1 | 1 | 1 | 1 | | | |
| 5260 | 4822 242 80259 | LN-G38-311 (4,332MHZ) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5261 | 4822 157 71206 | BLM21A10PT | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5420 | 4822 157 70839 | COIL ASSY 160UH 5A | | 1 | 1 | | | | | |
| 5420 | 4822 157 70935 | COIL ASSY 97UH 10A | | | | 1 | 1 | 1 | 1 | 1 |
| 5500 | 4822 157 11207 | EL0405RA-102K-3 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5501 | 4822 242 10753 | CSTCS8,00MT-TC | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5600 | 4822 242 10709 | CSTCS6.00MG-TC | | | | | 1 | 1 | 1 | |
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| 6408 | 4822 130 10185 | UDZ5.6B | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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| 7402 | 4822 209 15418 | L4949ED | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7407 | 4822 130 60511 | BC847B | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7409 | 5322 209 14477 | HEF4013BT | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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| 7417 | 4822 130 10839 | 2SD2061 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
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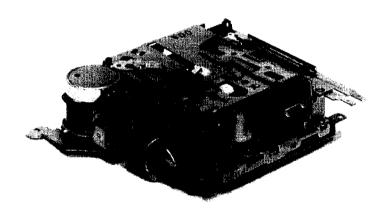
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| 7475 | 4822 130 60511 | BC847B | | |
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| 7500 | 4822 209 16187 | TMP87CM21F/2254 | | |
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| 7501 | 4822 900 11209 | ST24W16M6-22DC449/62L | | - 1 |
| 7501 | 4822 900 11211 | ST24W16M6-22DC459/62L | | |
| 7501 | 4822 900 11212 | ST24W16M6-22DC459/62F | | . 1 |
| 7600 | 4822 209 32743 | MSM6307GS | | ' I |
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| 7680 | 4822 130 60511 | BC847B | | ' |
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CDS-101WPF CDS-101xpf CDS-101YPF

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12 V → III



TECHNICAL DATA

Operating voltage

: 10-16V

Tape speed

: 4.76cm/sec ±2%

Wow & flutter

: ≤0.35% RMS (+10 - +45\$C)

Crosstalk (track 2-3)

: <-40dB

Number of tracks

Fast wind time

: ≤100secs (C-60)

Channel separation

: 2x2

(Tracks 1-2/3-4)

: >30dB

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GENERAL

The CDS-101 is supplied in 4 versions:

a. CDS-101SPF: Standard version.

b. CDS-101WPF: As CDS-101SPF version, with

"Key-Off/A.M.S." and tape

selector included.

c. CDS-101XPF: As CDS-101SPF version, with

"Key-Off/A.M.S." and "Real-Time

FF/REW" included.

d. CDS-101YPF: As CDS-101SPF version, with

"Key-Off/A.M.S.", "Real-Time FF/REW" and tape selector

included.

(A.M.S. = Automatic Music sensor System)

CONNECTIONS

CDS-101SPF/WPF/YPF

(* WPF/YPF version only; SPF version: N.C.)

| Pin no. | Wire colour | Signal |
|---------|-------------|--------------|
| 1 | | |
| 2 | | |
| 3 | Brown | GND |
| 4 | Red | + 14.2 VDC |
| 5 | Orange | N.C. |
| 6 | Yellow | Play switch |
| 7 | Green | Mute switch |
| 8 | Blue | Track switch |
| 9 | Purple | Solenoid* |
| 10 | Grey | N.C. |
| 11 | White | Me/Cr sw.* |

CDS101-XPF

| Pin no. | Wire colour | Signal |
|---------|-------------|--------------|
| 1 | Brown | GND |
| 2 | Red | + 14.2 VDC |
| 3 | Orange | N.C. |
| 4 | Yellow | Play switch |
| 5 | Green | Mute switch |
| 6 | Blue | Track switch |
| 7 | Purple | Solenoid |
| 8 | Grey | N.C. |
| 9 | White | N.C. |

HEAD CONNECTIONS

(all versions)

| Pin no. | Wire colour | Signal |
|---------|-------------|-----------|
| 1 | Black | GND |
| 2 | White | Left out |
| 3 | Pink | Right out |

MAINTENANCE

The cassette mechanism requires periodic cleaning.

Cleaning with alcohol or spirit

- Playback head pos.109.
- Capstan & pressure rollers pos.10, 11 and 27.
- Belt (pos.105) & pulley (pos.73).

To clean head, pressure roller and capstan, it is also possible to use drop-in cassette SBC114 (4822 389 20035).

ADJUSTMENTS AND CHECKS

Equipment required:

- Universal test cassette SBC419 (4822 397 30069)
- Universal test cassette SBC420 (4822 397 30071)
- Friction test cassette 811/CTM (4822 395 30054)
- Spring scale 50-500g (4822 395 80028)
- Wow & flutter meter
- AC millivoltmeters

1. Azimuth (Fig. 1 - next page)

Azimuth alignment should be carried out on a complete car radio; proceed as follows:

- Connect the millivoltmeters to the loudspeaker outputs.
- Insert test cassette SBC419 (or SBC420), select NOR (normal play) and play the 10kHz signal.
- Adjust Azimuth screw "FWD DIRECTION" (pos. 137) for equal and maximum output voltage reading for both right and left channel.
- Switch to REV (reverse play) and play the 10kHz signal.
- Repeat the adjustment with screw "REV DIRECTION" (pos.137).

 Adjust Azimuth screw "B" (pos.143) for maximum and equal outputs both for NOR and REV play and both for right and left channel. Repeat the procedure, if necessary.

2. Pressure roller pressure

The pressure on the capstan should be 250 - 350 grammes (2.5 - 3.5N).

This pressure is measured as follows (NOR and REV):

- Select Play mode.
- Push the pressure roller back at the shown point by means of the spring scale.
- At the point where pressure roller and capstan just disengage the spring scale should be read.
- If the pressure is incorrect, replace spring 94 (95).

3. Friction clutch (Reel assy) 22

- Insert friction test cassette 811/CTM (NOR and REV).
- Play take-up torque should be 35 75g/cm.
- Fast wind torque should be 40 150g/cm.
- If the torque is not correct, replace reel assy 22.

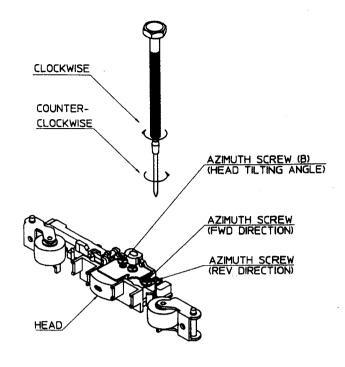
4. Wow & flutter/tape speed (Fig. 2)

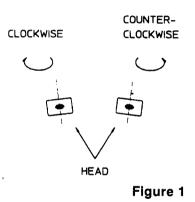
This check is carried out on an complete car radio; proceed as follows:

- Connect the wow & flutter meter to the LS outputs.
- Insert test cassette SBC419 (or SBC420) and play the 3150Hz signal.
- The wow & flutter value should be ≤0.35%
- Tape speed should be 4.76cm/sec. ±2%
- The tape speed can be adjusted with screw "S".

In case of an excessive wow & flutter value, check following parts for correct functioning:

- motor 31
- pressure (pinch) rollers 10, 11
- belt 105
- friction clutches (reel assy's) 22
- flywheels 27
- pulley 73





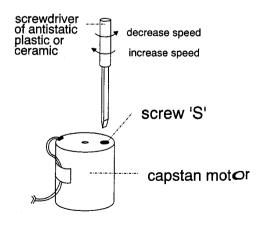


Figure 2

DISASSEMBLY INSTRUCTIONS

Refer to the exploded view to locate all positions.

Cassette Holder assy C

- Bend the back lock of the return link 104 on eject lever 41.
- 2. Remove return link 104.
- Take care that the cassette holder is in UPWARD position!
- 4. Remove screw 142.
- Move the cassette holder assy to the left to unlock it from the pivots of the chassis, and lift the holder upward at the left.
- 6. Take the cassette holder assy out.
- 7. To separate the two parts of the cassette holder assy, lift the rear part up.

Reel base assy D

- 1. Lay the tape deck upside down on a soft surface.
- 2. Remove the four screws 146 which fix the bottom plate 54
- 3. Remove the two screws 140 and screws 139 which fix the power switch assy A.
- 4. Remove the belt 105.
- 5. Remove the three screws 140 which fix the reel base assy.
- 6. Lift the reel base assy carefully.
- To remove the reel assy 22, put a small screwdriver between the reel base and the reel assy base plate and turn the screwdriver carefully until the reel base gets loose.

Lever unit assy B

- 1. Remove the wire clamp 108.
- 2. Remove the lock arm spring 90.
- 3. Remove the screw 140.
- 4. Lift out the lever unit assy at the front.

Pressure rollers

- First the cassette holder- and lever unit assy's should be removed.
- 2. Lift the pressure roller assy 10/46/47/94 (forward pressure roller) or 11/50/95 (reverse pressure roller).

Head Plate assy F and Head assy

- First the cassette holder- and lever unit assy's should be removed.
- 2. Remove the two screws 136 which fix the tape guide 68.
- 3. Remove the adjuster arm spring 93.
- Remove the head assy 67/93/109.
- 5. Remove the load lever spring 99 (not in -SPF).
- 6. Remove the adjuster link 66.
- 7. Remove the reset arm spring 86.
- 8. Pull the head plate 3 to the right side of the deck and lift it out carefully.

Flywheel 27

- First the cassette holder- and lever unit assy's should be removed.
- 2. Remove the belt 105.
- 3. Remove the E-ring 126 and plate 133.
- 4. Remove the flywheel 27.

Note: Don't forget to re-insert the plate(s) 133 after re-assembling the flywheel(s)!

F/R arm assy G

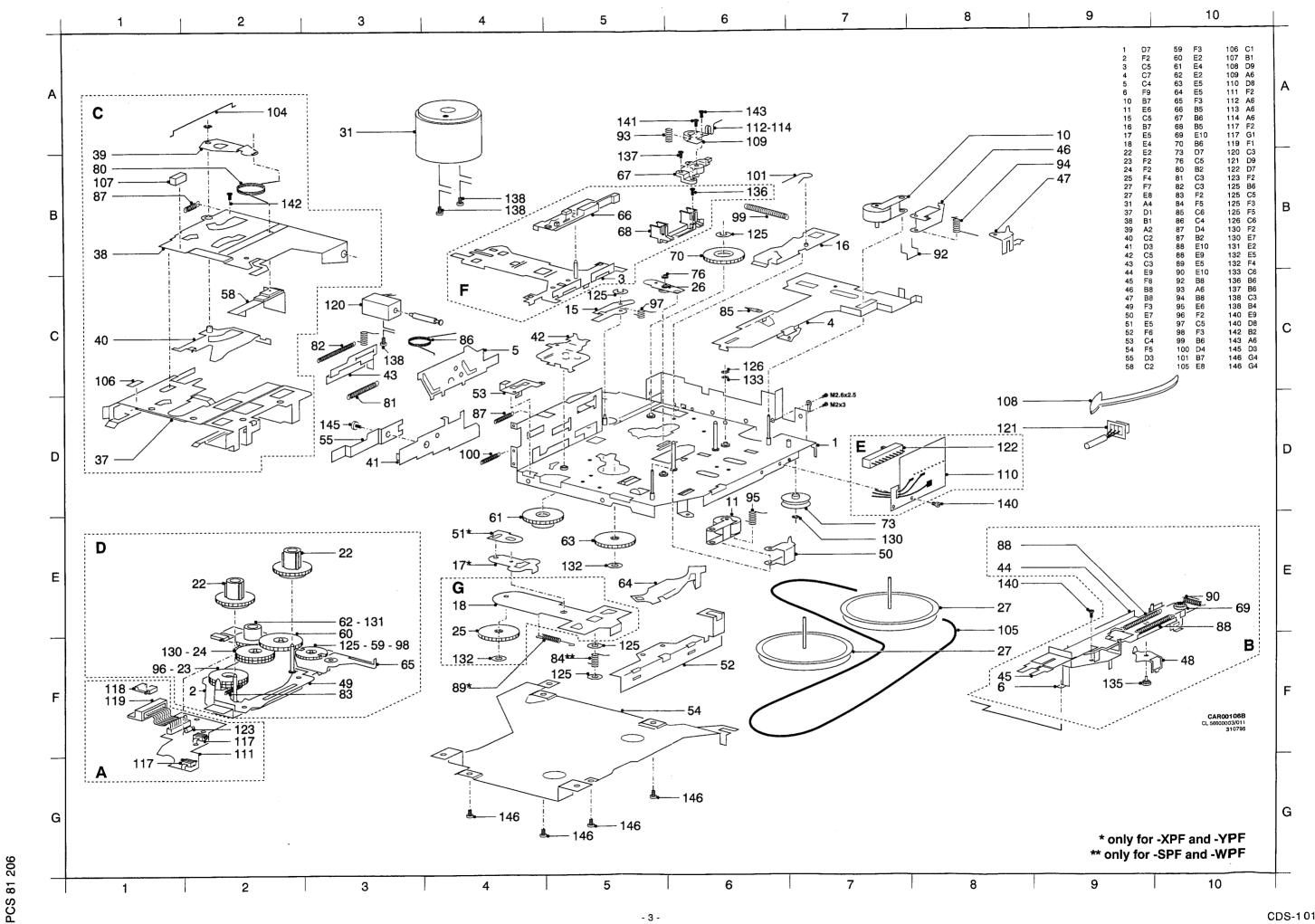
- First the reel base assy and both flywheels should be removed.
- 2. Remove E-ring 125 and the F/R arm spring 84.
- 3. Remove F/R change lever 52.
- 4. Remove the F/R arm assy G.

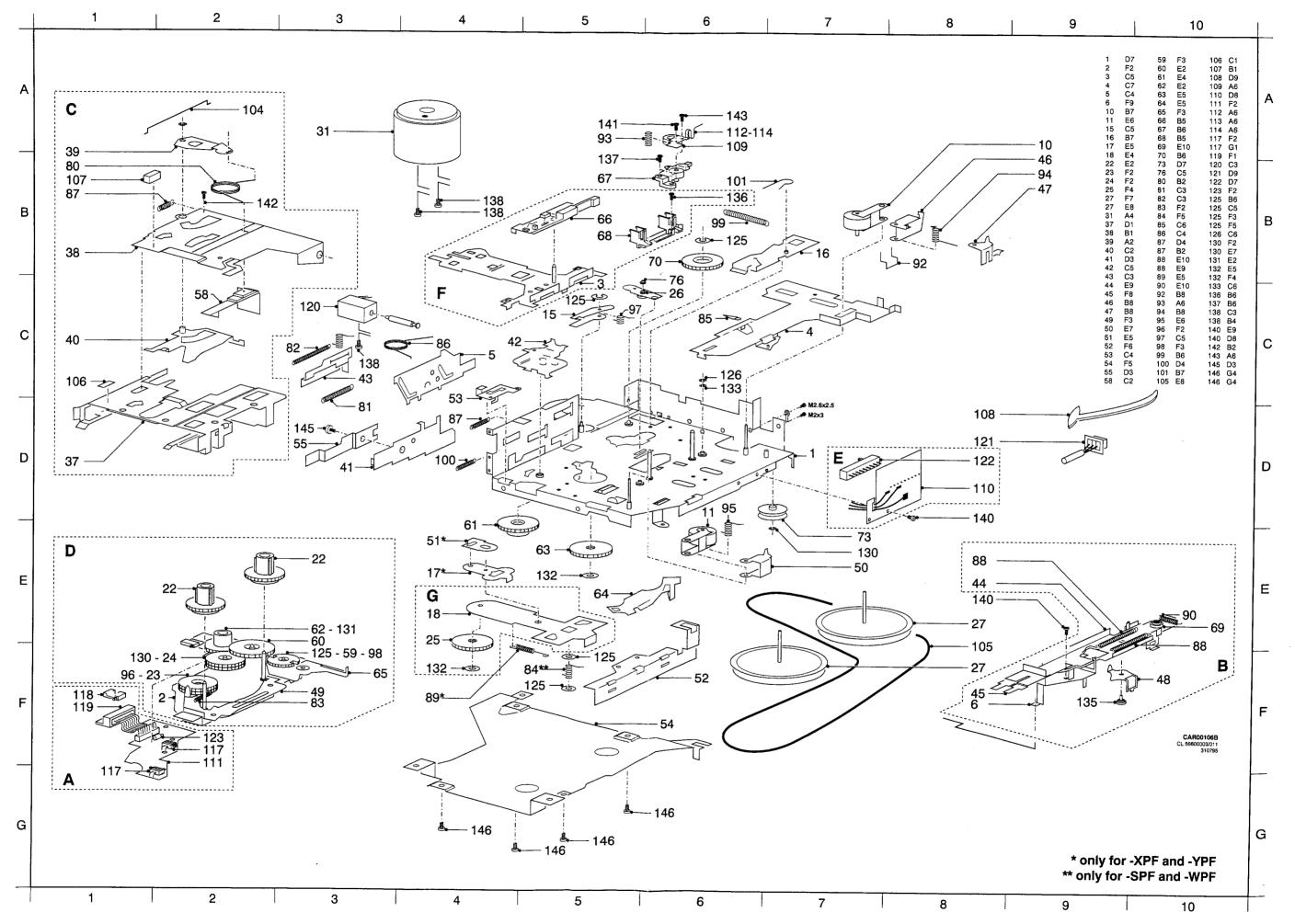
Motor assy 31

- 1. First the bottom plate 54 should be removed.
- 2. Remove, if present, fixing tapes etc. from the motor.
- 3. Unsolder the two wires from the motor terminals.
- 4. Remove the belt 105 from the motor pulley.
- Remove the two screws 138 which fix the motor and take the motor out.

Solenoid 120

- Unsolder the two solenoid wires from the switch pcb
 111
- 2. Remove the screw 138 which fixes the solenoid.





CDS-101

- 4 -

PCS 81 207

PARTSLIST

| 10 11 22 27 31 | 4822 528 81548 4822 528 81549 4822 528 10913 4822 528 60429 4822 361 30456 | PINCH ROLLER FW PINCH ROLLER REV REEL ASSY FLYWHEEL ASSY MOTOR ASSY | |
|----------------------------|--|--|--|
| 61 63 70 73 86 | 4822 522 33539 4822 522 33541 4822 522 33542 4822 528 81551 4822 492 42753 | REDUCTION GEAR (A) IDLER GEAR (A) LOAD GEAR IDLER PULLEY (A) RESET ARM SPRING | WPF, XPF, YPF SPF |
| 86 89 93 94 95 | 4822 492 42756 4822 492 33485 4822 492 33486 4822 492 42754 4822 492 42755 | RESET ARM SPRING (K) POS. SETTER SPRING ADJUSTER ARM SPRING PINCH ROLLER SPG FW PINCH ROLLER SPG REW | WPF, XPF, YPF XPF, YPF |
| 105 | 4822 492 33487 4822 492 33488 4822 492 42757 4822 358 31326 4822 249 30219 | LOAD LEVER SPRING ' TAPE SELECTOR SPRING LOAD LEVER SPRING (B) BELT HEAD | WPF, XPF, YPF WPF, YPF WPF, XPF, YPF |
| 125 | 4822 281 50188 4822 130 83863 4822 530 80699 4822 530 80701 4822 530 70629 | • | WPF, XPF, YPF WPF, XPF, YPF |
| 137 | 4822 530 70628 4822 502 21608 4822 502 21607 | PLATE 2.1X3.2MM AZIMUTH SCREW AZIMUTH SCREW (B) | |

COMPLETE DECKS

| 4822 691 10436 | CDS-101SPF COMPLETE |
|----------------|---------------------|
| 4822 691 10437 | CDS-101WPF COMPLETE |
| 4822 691 10435 | CDS-101XPF COMPLETE |
| 4822 691 10434 | CDS-101YPF COMPLETE |
| | |

ASSEMBLIES

| A A | 4822 276 13606 | POWER SWITCH ASSY POWER SWITCH ASSY | WPF, YPF XPF |
|------------------|--|--|----------------------|
| B | 4822 404 21342 | LEVER BRACKET ASSY | |
| C | 4822 256 92307 | CASSETTE HOLDER ASSY | |
| D D E F | 4822 528 10915 4822 528 10916 4822 214 52263 4822 466 83197 | REEL BASE ASSY REEL BASE ASSY SWITCH PCB ASSY HEAD PLATE ASSY | SPF WPF, XPF, YPF |
| G | 4822 404 21343 | F/R ARM ASSY | SPF, WPF |
| G | 4822 404 21344 | F/R ARM ASSY | XPF, YPF |